

GENWAL MINE

015/032

CHANGE TO THE MINING AND RECLAMATION PLAN

CRANDALL CANYON #1 MINE and the SOUTH CRANDALL MINE

*CRANDALL CANYON #1 MINE
AND SOUTH CRANDALL MINE
RECLAMATION PLAN
FEBRUARY 17, 2006*

CLEAN COPIES
SUBMITTED: FEBRUARY 17, 2006

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During the summer of 1990, a power line from Utah Power & Light was brought in across the top of the canyon. At this time the use of the diesel generator was terminated. Presently, a state of the art substation and transformer provide all power needs. The high voltage lines from the substation to the mine are run underground in cement covered conduit thus eliminating the need of overhead power poles and transmission lines.

The oil storage and fuel containment area (80' x 20') is located at the west end of the old loadout area. This containment area is of sufficient volume to hold the volume of the largest storage tank found within the containment area plus any additional storm water. The containment area has a valve connected to the drain inside the wall. The valve and drain will provide a means for removing any spills or water in the containment area. A certified SPCC plan outlining emergency action as per R645-301-730 is available at the mine site (Appendix 5-10). Refer to Plate 5-3 for all surface buildings and structures.

An underground bathhouse has been constructed to provide shower and sanitary facilities for the miners. This underground bathhouse was designed and installed in accordance with all State Health, MSHA, and Forest Service regulations. These agencies were contacted prior to the design and implementation for their input and approval as necessary. The water and sewage plans can be found in Appendix 5-11 and 5-12, respectively.

After the South Crandall portals were constructed, three small material storage sheds were placed on the site near the portals (see Plate 5-3). These sheds are all less than 20' x 25' and are of temporary type construction. They are used to store roof-bolt resin, electrical parts and other miscellaneous items. These sheds will be removed prior to final reclamation.

Two mine fans located on the surface, as shown on Plate 5-3, are used to ventilate the mine workings to insure a sufficient amount of oxygen for mine employees to continue operations within the mine. Other structures such as cement guard rails and cement walls have been constructed, with the Division's approval, and are listed within pages 5-33 and 5-34. This list includes the approximate date of completion of each structure and the description of each construction project.

Shotcrete was sprayed onto the cut-slope above the portals, the portal roads, and the coal storage area, as shown on Plate 5-3. A 4" square wire mesh was used, being spaced approximately 1" to 2" away from the existing slope. The wire mesh was secured to the slope with standard metal clips and bolts. Two-inch PVC pipe, perforated for drainage, was inset 2 to 3 feet into the slope at two different elevations, approximately 6" to 12" from the bottom of the project and 12" to 24 from the top of the project. These pipes were spaced 6 to 10 feet apart for the entire length of the project, with 2" to 4" of shotcrete then being sprayed onto the wire mesh. The intent of the project is to stabilize the cut slope to eliminate sloughage and enhance safety for personnel.

APPENDIX 5-20

RECLAMATION BOND

Crandall Canyon Mine C/015/032

Bond Amount

Revised Jan 2006

Bonding Calculations

Crandall Canyon Mine C/007/032

Revised

January 13, 2006

Bond Summary**Direct Costs**

Subtotal Demolition and Removal	\$685,370.00
Subtotal Backfilling and Grading	\$500,904.00
Subtotal Revegetation	\$50,524.00
Direct Costs	\$1,236,798.00

Indirect Costs

Mob/Demob	\$123,680.00	10.0%
Contingency	\$61,840.00	5.0%
Engineering Redesign	\$30,920.00	2.5%
Main Office Expense	\$84,102.00	6.8%
Project Mainainement Fee	\$30,920.00	2.5%
Subtotal Indirect Costs	\$331,462.00	26.8%

Total Cost in 2006 Dollars	\$1,568,260.00
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Escalation factor	0.012
Number of years	0
Escalation	\$0.00

Reclamation Cost 2006	\$1,568,260.00
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Bond Amount (rounded to nearest \$1,000)	\$1,568,000.00
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Bond Posted 2004	\$1,654,000.00
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Difference Between Cost Estimate and Bond	\$86,000.00
Percent Difference	5.48%

Ref.	Description	Materials	Means Reference Number	Unit	Unit Cost	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Shop 01																				
Ventilation Fan 02																				
Block Dust Silo 03																				
Concrete Dump Pad 04																				
Power Center 05																				
Power Poles 06																				
Underground Bathhouse 07																				
Portals 08																				
Belts-Ornals 09																				
Crusher Pad 10																				
Mine Belt 11																				
Silo 13																				
Weight Shed 14																				
Bulk Oil 15																				
Truck Pad 17																				
General Storage 18																				
Reclaim Hopper Bed 19																				
Vertical Disconnect 20																				
New Shop 21																				
Shop Extension 22																				
Shotcrete Stoops 23																				
Fan Transom 24																				
Chain Link Fence 25																				
Concrete Guard 26																				
Reinforcing Wall 27																				
Culverts 28																				
Guard Rail 29																				
Holes 30																				
Sed Pond Culvert 31																				
Gashion Reinforcing Wall 32																				
Overhead Conveyor Support 35																				
Feeder Tumline 36																				
Feeder Boxes 37																				
Reclaim Conveyor Supports 38																				
Crusher Platform Supports 39																				
Feeder Conveyor Supports 40																				
Scale Posts 41																				
New Scale House 42																				
Proposed Bathhouse 43																				
Coal Site 44																				
Conveyors 45																				
Parking Lot 46																				
RubberTire 47																				
Culvert Bedding Removal 48																				
Off Site Demo Fee 49																				
Drainage Control 50																				
	Total																		\$885,370.00	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
01	Shop 01																		
	Structure Demolition Cost	Steel Bld. Large	02220 110 0012	0.26/CF	180	20	20												
	Structure's Vol. Demolished																		
	Rubble's Weight (exclude steel)																		
	Truck's Capacity																		
	Heulage	12 CY (16 Ton) Dump Truck 5 mi. rnd. trip	02315 480 0540	11.15/CY															
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Cost Non Steel	Nelson Construction	77TON																
	Steel's Weight																		
	Truck's Capacity																		
	Heulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Cost Steel																		
	Subtotal																	\$31,705.00	
	Equipment's Disposal Cost																		
	Demoliting Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition	Concrete demolition	ConcreteDemo1	6.81/KCY	180	20	0.5												
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost	Front and under 3 CY	02315 424 1300	1.49/CY															
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	02315 480 0320	3.49/CY															
	Disposal Costs	On site disposal	02220 240 5550	7.75/CY															
	Subtotal																	\$1,378.00	
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Total																	\$33,083.00	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
02	Ventilation Fan 02																		
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.36/CY	ft	60	20	16.67										20004 CF	\$5,201.00
	Structure's Vol. Demolished																	259 CY	
	Rubble's Weight (exclude steel)																	0.35	
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive	Nelson Construction	Nelson Con...	7TON															
	Sheet's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Cost Steel																		
	Subtotal																		
	Equipment's Disposal Cost																		
	Dismantling Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81/CY	ft	90	20	0.5											
	Concrete's Vol. Demolished	Front end loader 3 CY		1.3	CY														
	Loading Cost	12 CY (18 Ton) Dump Truck 12 mi. rd. trip	02215 424 1300	1.43/CY															
	Transportation Cost	On site disposal	02215 480 0320	3.99/CY															
	Disposal Costs		02220 240 5550	7.73/CY															
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Total																		\$10,419.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
03	Rock Dust Silo 03	Steel Bld. Lame	02220 110 0012	0.26/CF	CF									FT	0.35	3393.00	44CY		\$882.00	
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (excuse steel)																			
	Truck's Capacity																			
	Fauldge	12 CY (18 Ton) Dump Truck 5 mi. rnd. trip	02315 490 0540	11.15/CY	CY															
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Sheet Drive																			
	Disposal Cost Non Steel	Nelson Construction	Nelson Con.	7/TON	Ton															\$308.00
	Steel's Weight																			
	Truck's Capacity																			
	Fauldge																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			\$1,681.00
	Equipment's Disposal Cost																			
	Demolition Cost																			
	Equipment's Vol. Demolished																			
	Leasing Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition	Concrete demolition	ConcreteDemo1	6.81/CY	CY															
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Leasing Cost	Front end loader 3 CY	02315 424 1300	1.49/CY	CY															
	Transportation Cost	12 CY (18 ton) Dump Truck 1/2 mi. rnd. trip	02315 490 0320	3.49/CY	CY															
	Disposal Costs	On site disposal	02220 240 5550	7.75/CY	CY															
	Subtotal																			\$81.00
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Leasing Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Landing Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			\$1,732.00

Ref.	Description	Materials	Measur es Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
D4	Concrete Dump Pad 04																			
	Structure Demolition Cost																			
	Rubble's Weight (excludes steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Demolition Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Asphalt Demolition																			
	Pavement removal (asphalt) 3 inch																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																		\$11290.00	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
05	Power Center 05																			
	Structure's Demolition Cost																			
	Structure's Voi. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
Haulage																				
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
Steel's Weight																				
Truck's Capacity																				
Haulage																				
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
Subtotal																				
Mechanical Equipment																				
Transformer	Mechanical equipment heavy	15055 300 3800	650/mton																	
Underground Wire	Wire Removal	15055 300 3800	850/mton																	
Aerial Wire	Wire Removal	Soldier Creek	4.81/F	900	Ton															
Chain Link Fence	Chain link remove 8'-10'	Soldier Creek	4.81/F	900	Ton															
		02220 220 7100	3.05/LF	120	CF															
Subtotal																				\$13,050.00
Concrete Demolition																				
Demolition Cost	Concrete demolition	ConcreteDemo1	6.81/CY																	
Concrete's Voi. Demolished																				
Loading Cost																				
Transportation Cost	Front end loader 3 CY	02315 424 1300	1.49/CY																	
Disposal Costs	12 CY (18 Ton) Dump Truck 1/2 mi. trip	02315 480 0320	3.49/CY																	
Subtotal	On site disposal	02220 240 3550	7.75/CY	7,750	Ton															
Concrete Demolition																				
Demolition Cost																				
Concrete's Voi. Demolished																				
Loading Cost																				
Transportation Cost																				
Disposal Costs																				
Subtotal																				
Concrete Demolition																				
Demolition Cost																				
Concrete's Voi. Demolished																				
Loading Cost																				
Transportation Cost																				
Disposal Costs																				
Subtotal																				
Total																				\$13,354.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
96	Power Poles 06 Structure's Demolition Cost Structure's Vol. Demolished Rubble's Weight (excluse steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel) Truck																			
	Transportation Cost Non Steel) Drive																			
	Dispose Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel) Truck																			
	Transportation Cost Steel) Truck Drive																			
	Dispose Cost Steel																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Remove wire	Wire Removal	Soldier Creek	4.81/LF	180															
	Remove conduit (use wire)	Wire Removal	Soldier Creek	4.81/LF	100															
	Remove Fixtures (use poles)	Powernpole	Hawetha	100/EA																
	Remove Poles	Powernpole	Hawetha	100/EA																
	Dispose Costs																			
	Subtotal																			\$2,547.00
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Leasing Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Leasing Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Leasing Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Total																			\$2,547.00

Ref.	Description	Materials	Unit	Unit Cost	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
07	Underground Bathhouse 07 Structure's Demolition Cost Structure's Vol. Demolished Rubble's Weight (excludes steel)	Masonry Blk. Large	02220 110 0080	0.28CF						14000					CF	0.35	14000CF 181CY	\$3,920.00
	Haulage	12 CY (16 Ton) Dump Truck 5 mi. md. trip	02315 480 0540	11.15CY											181CY			\$2,018.00
	Transportation Cost Non Steel/Steel	Nelson Construction	Nelson Con.	7TON											1	TonCY	181ton	\$1,261.00
	Steel's Weight																	
	Truck's Capacity																	
	Haulage																	
	Transportation Cost Steel/Steel																	
	Transportation Cost Steel/Truck Drive																	
	Subtotal																	\$7,205.00
	Equipment's Disposal Cost																	
	Demolition Cost																	
	Equipment's Vol. Demolished																	
	Lending Costs																	
	Transport Costs																	
	Disposal Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost	Concrete demolition	ConcreteDemo1	0.81CY												28CY		\$177.00
	Concrete's Vol. Demolished															34CY		
	Lending Cost	Front end loader 3 CY	02315 424 1300	1.43CY												34CY		\$49.00
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. trip	02315 480 0320	3.49CY												34CY		\$119.00
	Concrete Costs	On site disposal	02220 240 5550	7.75CY												34CY		\$295.00
	Subtotal																	\$630.00
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Lending Cost																	
	Transportation Cost																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Lending Cost																	
	Transportation Cost																	
	Subtotal																	
	Total																	\$7,814.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
38	Portals 08 Structure's Demolition Cost Structure's Vol. Demolished Rubble's Weight (exclude steel)	Steel Portals	AM1	\$200/EA													6EA		\$31,200.00	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Dispose Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Dispose Cost Steel																			
	Subtotal																			\$31,200.00
	Equipment's Disposal Cost																			
	Demolition Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Total																			\$31,200.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
09	BellPortals 09 Structure's Vol. Demolished Rubble's Weight (exclude Steel)	Steel Portals	Aml.1	\$200/EA.											1EA		\$2,000.00	
	Truck's Capacity																	
	Haulage																	
	Transportation Cost Non Steel Truck																	
	Transportation Cost Non Steel Drive																	
	Disposal Cost Non Steel																	
	Steel's Weight																	
	Truck's Capacity																	
	Haulage																	
	Transportation Cost Steel Truck																	
	Transportation Cost Steel Truck Drive																	
	Disposal Cost Steel																	
	Subtotal																\$2,000.00	
	Equipment's Demolition Cost																	
	Demolition Cost																	
	Equipment's Vol. Demolished																	
	Loading Costs																	
	Transport Costs																	
	Disposal Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Loading Cost																	
	Transportation Cost																	
	Disposal Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Loading Cost																	
	Transportation Cost																	
	Disposal Costs																	
	Subtotal																	
	Total																	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
10	Crusher Pad 10 Structure's Demolition Cost: Structure's Vol. Demolished Rubble's Weight (excludes steel) Truck's Capacity Haulage	Steel Blk. Large	02220 110 0002	0.28/CF	CF	36	20	1								0.35	720	CF 9CY	\$187.00	
	Transportation Cost Non Steel Truck Transportation Cost Non Steel Drive															9CY			\$100.00	
	Disposal Cost Non Steel Steel's Weight Truck's Capacity	Nelson Construction	Nelson Con.	7/TON	Ton											1	TonCY		\$65.00	
	Haulage																			
	Transportation Cost Steel Truck Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel Subtotal																			
	Equipment's Disposal Cost	Mechanical equipment heavy	150255 300 3800	0.50/ton	ton												3			\$2,550.00
	Demolition Cost Equipment's Vol. Demolished Loading Costs																			
	Transport Costs Disposal Costs Subtotal																			
	Concrete Demolition	Concrete demolition	ConcreteDemo1	0.81/CY	CY												27	CY 35CY		\$184.00
	Demolition Cost Concrete's Vol. Demolished Loading Cost																1.3	35CY		\$50.00
	Transportation Cost Disposal Costs Subtotal	Front end loader 2 CY 12 CY (18 Ton) Dump Truck 1/2 mi. rnd. trip On site disposal	02315 424 1300 02315 480 0320 02220 240 5550	1.43/CY 3.49/CY 7.75/CY	CY												35CY 35CY 35CY		\$122.00	
	Concrete Demolition	Concrete demolition	ConcreteDemo1	0.81/CY	CY															
	Demolition Cost Concrete's Vol. Demolished Loading Cost																418			\$82.00
	Transportation Cost Disposal Costs Subtotal	Front end loader 2 CY 12 CY (18 Ton) Dump Truck 1/2 mi. rnd. trip On site disposal	02315 424 1300 02315 480 0320 02220 240 5550	1.43/CY 3.49/CY 7.75/CY	CY															
	Concrete Demolition																			
	Demolition Cost Concrete's Vol. Demolished Loading Cost																			
	Transportation Cost Disposal Costs Subtotal																			
	Concrete Demolition																			
	Demolition Cost Concrete's Vol. Demolished Loading Cost																			
	Transportation Cost Disposal Costs Subtotal																			
	Total																			\$3,835.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
11	Mine Belt 11																		
	Structure & Demolition Cost																		
	Structure & Vol. Demolished																		
	Rubble's Weight (excludes steel)																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Cost Non Steel																		
	Steel's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Cost Steel																		
	Subtotal																		
	Equipment's Disposal Cost																		
	Demolition Cost																		
	Mechanical equipment heavy																		
	Equipment & Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
	Subtotal																	\$2,550.00	
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Total																	\$2,550.00	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
13	Silo 13	Mixed Materials Bld. Large	02220 110 0100	0.29/CY												FT	0.35	\$3014.55	\$14,844.00
	Structure's Demolition Cost															CY	687.2Y		
	Structure's Vol. Demolished																		
	Rubble's Weight (excludes steel)																		
	Truck's Capacity																		
	Haulage	12 CY (18 Ton) Dump Truck 5 mi. md. trip	02315 480 0540	11.15/CY															
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Costs Non Steel															TonCY	687Ton		
	Steel's Weight																		
	Truck's Capacity																		
	Faultage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Costs Steel																		
	Subtotal																		\$27,313.00
	Equipment's Disposal Cost																		
	Demolition Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
	Subtotal																		\$17,000.00
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Total																		\$45,681.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Quantity	Unit	Swell Factor	Time	Number	Cost
14	Weight Shed 14																	
	Structure's Demolition Cost																	
	Structure's Vol. Demolished																	
	Rubble's Weight (exclude steel)																	
	Truck's Capacity																	
	Haulage																	
	Transportation Cost Non Steel Truck																	
	Transportation Cost Non Steel Drive																	
	Dispose Cost Non Steel																	
	Steel's Weight																	
	Truck's Capacity																	
	Haulage																	
	Transportation Cost Steel Truck																	
	Transportation Cost Steel Truck Drive																	
	Dispose Cost Steel																	
	Subtotal																	
	Equipment's Disposal Cost																	
	Demolition's Cost																	
	Equipment's Vol. Demolished																	
	Loading Costs																	
	Transport Costs																	
	Dispose Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Loading Cost																	
	Transportation Cost																	
	Dispose Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Loading Cost																	
	Transportation Cost																	
	Dispose Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Loading Cost																	
	Transportation Cost																	
	Dispose Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Loading Cost																	
	Transportation Cost																	
	Dispose Costs																	
	Subtotal																	
	Total																	\$335.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
15	Bulk Oil 15																			
	Structure's Demolition Cost	Masonry Bid, Large	02220 110 0080	0.28/CF	CF	55	20	10									0.35	11000CF	\$3,080.00	
	Structure's Vol. Demolished	Rubble's Weight (exclude steel)															143CY			
	Truck's Capacity	12 CY (15 ton) Dump Truck 5 mi. md. trip	02315 180 0540	11.15/CY	CY												143CY			\$1,594.00
	Haulage	Transportation Cost Non Steel																		
	Transportation Cost Non Steel	Truck																		
	Transportation Cost Non Steel	Drive																		
	Dispose Cost Non Steel																			
	Subtotal																			
	Tank																			
	Damaging Cost	9000 gal to 12000 gal tank	02115 200 0130	1300/EA	EA												1EA			\$1,300.00
	Loading Costs																			
	Transport Costs	9000 gal to 12000 gal tank	02115 200 1028	1100/EA	EA												1EA			\$1,100.00
	Dispose Costs	9000 gal to 12000 gal tank	02115 200 0320	325/EA	EA												1EA			\$325.00
	Subtotal																			
	Slab																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81/CY	CY	20	55	0.5									FT			
	Concrete's Vol. Demolished																11CY			\$136.00
	Leading Cost	Front end loader 3 CY	02315 124 1300	1.43/CY	CY												26CY			\$75.00
	Transportation Cost	12 CY (15 Ton) Dump Truck 12 mi. md. trip	02315 180 0320	3.49/CY	CY												26CY			\$20.00
	Dispose Costs																26CY			\$81.00
	Subtotal																26CY			\$202.00
	Footing																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81/CY	CY	150	2	1									FT			
	Concrete's Vol. Demolished																14CY			\$13.00
	Leading Cost	Front end loader 3 CY	02315 124 1300	1.43/CY	CY												26CY			\$31.00
	Transportation Cost	12 CY (15 Ton) Dump Truck 12 mi. md. trip	02315 180 0320	3.49/CY	CY												26CY			\$70.00
	Dispose Costs																26CY			\$162.00
	Subtotal																			
	Slab																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81/CY	CY	20	20	0.5									FT			
	Concrete's Vol. Demolished																7CY			\$48.00
	Leading Cost	Front end loader 3 CY	02315 124 1300	1.43/CY	CY												9CY			\$75.00
	Transportation Cost	12 CY (15 Ton) Dump Truck 12 mi. md. trip	02315 180 0320	3.49/CY	CY												9CY			\$31.00
	Dispose Costs																9CY			\$70.00
	Subtotal																			
	Wells																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81/CY	CY	20	20	0.5									FT			
	Concrete's Vol. Demolished																4CY			\$27.00
	Leading Cost	Front end loader 3 CY	02315 124 1300	1.43/CY	CY												9CY			\$13.00
	Transportation Cost	12 CY (15 Ton) Dump Truck 12 mi. md. trip	02315 180 0320	3.49/CY	CY												9CY			\$31.00
	Dispose Costs																9CY			\$70.00
	Subtotal																			
	Total																			99,371.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter Area	Volume	Weight	Density	Time	Number	Quantity	Unit	Swell Factor	Cost
17	Truck Pad 17	Steel Bld. Large	022220 110 0012	0.28/CF														
	Structure's Demolition Cost																	
	Structure's Vol. Demolished																	
	Rubble's Weight (excuse steel)																	
	Truck's Capacity																	
	Haulage																	
	Transportation Cost Non Steel Truck																	
	Transportation Cost Non Steel Drive																	
	Dispose Cost Non Steel																	
	Steel's Weight																	
	Truck's Capacity																	
	Haulage																	
	Transportation Cost Steel Truck																	
	Transportation Cost Steel Truck Drive																	
	Dispose Cost Steel																	
	Subtotal																	
	Equipment's Dispose Cost																	
	Demolition Cost																	
	Equipment's Vol. Demolished																	
	Loading Costs																	
	Transport Costs																	
	Dispose Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Loading Cost																	
	Transportation Cost																	
	Dispose Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Loading Cost																	
	Transportation Cost																	
	Dispose Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Loading Cost																	
	Transportation Cost																	
	Dispose Costs																	
	Subtotal																	
	Total																\$847.00	

Ref:	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
18	General Storage 18																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.26CF	FT	20	60	23						FT	0.35	27600CF	358CY	\$7,176.00		
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Vehicle	12 CY (16 Ton) Dump Truck 5 mi. rd. trip	02315 490 0540	11.15CY																
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Steel's Weight	Nelson Construction	Nelson Con.	7TON																
	Steel's Weight																			
	Truck's Capacity																			
	Vehicle																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			\$13,671.00
	Equipment's Disposal Cost																			
	Demolition Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition	Concrete demolition	Concrete Demo1	6.61CY	FT	20	87.5	0.67												
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.43CY																
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip	02315 490 0320	3.49CY																
	Disposal Costs	On site disposal	02220 240 5550	7.75CY																
	Subtotal																			\$790.00
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			\$14,649.00

Ref.	Description	Materials	Unit	Unit Cost	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
19	Reclaim Hopper Belt 19																		
	Structure's Demolition Cost																		
	Structure's Vol. Demolished																		
	Rubble's Weight (excuse steel)																		
	Truck's Capacity																		
	Heulage																		
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Cost Non Steel																		
	Steel's Weight																		
	Truck's Capacity																		
	Heulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Cost Steel																		
	Subtotal																		
	Equipment's Disposal Cost																		
	Demolition Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Total																		\$4,250.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Quantity	Unit	Swell Factor	Cost
20	Visual Disconnect 20' Structure's Vol. Demolished															
	Rubble's Weight (exclude steel)															
	Truck's Capacity															
	Haulage															
	Transportation Cost Non Steel Truck															
	Transportation Cost Non Steel Drive															
	Diagonal Cost Non Steel															
	Steel's Weight															
	Truck's Capacity															
	Haulage															
	Transportation Cost Steel Truck															
	Transportation Cost Steel Truck Drive															
	Disposal Costs Steel															
	Subtotal															
	Equipment's Disposal Cost															
	Demolition's Cost															
	Equipment's Vol. Demolished															
	Loading Costs															
	Transport Costs															
	Disposal Costs															
	Subtotal															\$850.00
	Concrete Demolition															
	Demolition Cost															
	Concrete's Vol. Demolished															
	Loading Cost															
	Transportation Cost															
	Disposal Costs															
	Subtotal															
	Concrete Demolition															
	Demolition Cost															
	Concrete's Vol. Demolished															
	Loading Cost															
	Transportation Cost															
	Disposal Costs															
	Subtotal															
	Concrete Demolition															
	Demolition Cost															
	Concrete's Vol. Demolished															
	Loading Cost															
	Transportation Cost															
	Disposal Costs															
	Subtotal															
	Total															\$850.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
21	New Shop 21																		
	Structure's Demolition Cost	Steel Bid. Large	d2220.110.0012	0.28CF	FT	20	82.5	20										25000CF	\$8,300.00
	Structure's Vol. Demolished																	324CY	
	Rubble's (Weight (exclude steel))																		
	Truck's Capacity																		
	Haulage	12 CY (18 Ton) Dump Truck 5 mi. md. trip	d2315.490.0540	11.15CY	FT													324CY	\$3,915.00
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Dispose Cost Non Steel	Nelson Construction		7TON	TonCY														
	Steel's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Dispose Cost Steel																		
	Subtotal																		\$12,351.00
	Equipment & Disposal Cost																		
	Demolition Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost	Concrete demolition	ConcreteDemo1	0.81CY	FT													23CY	\$157.00
	Concrete's Vol. Demolished																	30CY	
	Loading Cost	Front end loader 3 CY	d2315.424.1300	1.43CY	FT													43.00	
	Transportation Cost	12 CY (18 Ton) Dump Truck 1/2 mi. md. trip	d2315.490.0320	3.49CY	FT													105.00	
	Dispose Costs	On site disposal	d2220.240.5550	7.75CY	FT													233.00	
	Subtotal																		\$384.00
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Total																		\$12,319.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
22	Shop Extension 22'	Steel Bid. Lame	02220 110 0012	0.26/CF	CF	20	30	12								FT	0.35	72000 CF 80 CY	FT	\$1,872.00
	Structure's Vol. Demolished	Rubble's Weight (exclude steel)																		
	Truck's Capacity																			
	Haulage	12 CY (18 Ton) Dump Truck 5 mi. rd. trip	02315 480 0540	11.15/CY	CY															
	Transportation Cost Non Steel Truck	Nelson Construction														TonCY				
	Transportation Cost Non Steel Drive																			
	Dispose Cost Non Steel															Ton				
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Dispose Cost Steel																			
	Subtotal																			\$3,560.00
	Equipment's Disposal Cost																			
	Demolition Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition	Concrete demolition	ConcreteDemo1	6.81/CY	CY	20	30	0.5								FT	1.3	11 CY 14 CY	FT	\$75.00
	Demolition Cost	Concrete's Vol. Demolished																		
	Leading Cost	Front end loader 3 CY	02315 424 1390	1.49/CY	CY															
	Transportation Cost	12 CY (18 ton) Dump Truck 12 mi. rd. trip	02315 480 0320	3.49/CY	CY															
	Dispose Costs	On site disposal	02220 240 5550	7.75/CY	CY															
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Leading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Leading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Total																			\$3,613.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
23	Shotcrete Slopes 23																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Demolition Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition		Concrete demolition																	
	Demolition Cost		ConcreteDemo1																	
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transport Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			\$1,073.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
25	Chain Link Fence 25	Chain link remove 8'-10'	02220 220 1700	3.05/LF	LF	120										LF		120 LF		\$286.00
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Dispose Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Dispose Cost Steel																			
	Subtotal																			\$286.00
	Equipment & Disposal Cost																			
	Demolition Cost																			
	Equipment & Vol. Demolished																			
	Loading Costs																			
	Transport. Costs																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Total																			\$286.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Quantity	Unit	Swell Factor	Time Number
26 Concrete Guard 26																
	Structure's Demolition Cost															
	Structure's Vol. Demolished															
	Rubble's Weight (exclude steel)															
	Truck's Capacity															
	Haulage															
	Transportation Cost Non Steel Truck															
	Transportation Cost Non Steel Drive															
	Disposal Cost Non Steel															
	Steel's Weight															
	Truck's Capacity															
	Haulage															
	Transportation Cost Steel Truck															
	Transportation Cost Steel Truck Drive															
	Disposal Cost Steel															
	Subtotal															
 Equipment's Disposal Cost																
	Demolition Q. Cost															
	Equipment's Vol. Demolished															
	Loading Costs															
	Transport Costs															
	Disposal Costs															
	Subtotal															
 Concrete Demolition																
	Demolition Cost															
	Concrete's Vol. Demolished															
	Loading Cost															
	Transportation Cost															
	Disposal Costs															
	Subtotal															
 Concrete Demolition																
	Demolition Cost															
	Concrete's Vol. Demolished															
	Loading Cost															
	Front end loader 3 CY															
	12 CY (18 Ton) Dump Truck 1/2 ml. rd. trip															
	02315 424 1300															
	3.49CY															
	On site disposal															
	02220 240 5550															
	7.75CY															
	Subtotal															
 Concrete Demolition																
	Demolition Cost															
	Concrete's Vol. Demolished															
	Loading Cost															
	Front end loader 3 CY															
	12 CY (18 Ton) Dump Truck 1/2 ml. rd. trip															
	02315 480 0320															
	3.49CY															
	On site disposal															
	02220 240 5550															
	7.75CY															
	Subtotal															
 Concrete Demolition																
	Demolition Cost															
	Concrete's Vol. Demolished															
	Loading Cost															
	Transportation Cost															
	Disposal Costs															
	Subtotal															
	Total															\$4,192.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
27	Retraining Wall 27																		
	Structure's Demolition Cost																		
	Structure's Vol. Demolished																		
	Rubble's Weight (exclude steel)																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Cost Non Steel																		
	Steel's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Diesel Cost Steel																		
	Subtotal																		
	Equipment's Disposal Cost																		
	Demolition Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Total																	\$2,743.00	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
26	Culverts 28	Excavation 1 CY backhoe earth	D2315.462.8040	13.1 CY	235	3.5	7										FT	28CY	\$3,511.00
	UD-1	Excavation 1 CY backhoe earth	D2315.462.8040	13.1 CY	600	2	4										FT	178CY	\$2,332.00
C2, C4, C8, C10	Excavation 1 CY backhoe earth	D2315.462.8040	13.1 CY	80	1.5	3											FT	10CY	\$131.00
C1	Excavation 1 CY backhoe earth	D2315.462.8040	13.1 CY	85	1.25	2.5											FT	10CY	\$131.00
C12	Excavation 1 CY backhoe earth	D2315.462.8040	13.1 CY	251	1	2											FT	19CY	\$249.00
C3, C7, C9, C11	Excavation 1 CY backhoe earth	D2315.462.8040	13.1 CY	500	1.5	3											BT	83CY	\$1,087.00
UD-3	Excavation 1 CY backhoe earth	D2315.462.8040	13.1 CY	120	1	2											FT	9CY	\$118.00
C-5	Excavation 1 CY backhoe earth	D2315.462.8040	13.1 CY	1400	2	4											FT	415CY	\$5,427.00
ByPass	Excavation 1 CY backhoe earth	D2315.462.8040	13.1 CY	1400	6	12											FT	3133CY	\$48,902.00
Main Creek	Excavation 1 CY backhoe earth																		
	Subtotal																		\$81,898.00
	Equipment's Disposal Cost																		
	Premetting Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transportation Costs																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Total																		\$81,898.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Quantity	Unit	Swell Factor	Cost
2b	Guard Rail 29 Structure's Demolition Cost Structure's Vol. Demolished Rubble's Weight (exclude steel)																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Remove Rails	Guide rail remove	02220 240 0800	12.2	F															
	Remove Posts	Guide Posts Remove	02220 240 0850	14.2	a															
	Lending Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Lending Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Lending Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Lending Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			\$1,608.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Quantity	Unit	Swell Factor	Cost
30	Initials 30															
	Structure's Demolition Cost															
	Structure's Vol. Demolished															
	Rubble's Weight (Exclude steel)															
	Truck's Capacity															
	Faultline															
	Transportation Cost Non Steel Truck															
	Transportation Cost Non Steel Drive															
	Disposal Cost Non Steel															
	Steel's Weight															
	Truck's Capacity															
	Haulage															
	Transportation Cost Steel Truck															
	Transportation Cost Steel Truck Drive															
	Disposal Cost Steel															
	Subtotal															
	Equipment's Disposal Cost	Mechanical equipment, heavy	15025 300 3800	050/ton	ton											
	Demolitioning Cost															
	Equipment's Vol. Demolished															
	Landing Costs															
	Transport Costs															
	Disposal Costs															
	Subtotal															\$850.00
	Concrete Demolition															
	Demolition Cost	Concrete demolition	ConcreteDemo1	0.81/CY	CY											
	Concrete's Vol. Demolished															
	Landing Cost	Front end loader 3 CY	02315 424 1300	1.43/CY	CY											
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip	02315 480 0320	3.49/CY	CY											
	Disposal Costs	On site disposal	02220 240 5550	7.75/CY	CY											
	Subtotal															
	Concrete Demolition															
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81/CY	CY											
	Concrete's Vol. Demolished															
	Landing Cost	Front end loader 3 CY	02315 424 1300	1.43/CY	CY											
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip	02315 480 0320	3.49/CY	CY											
	Disposal Costs	On site disposal	02220 240 5550	7.75/CY	CY											
	Subtotal															
	Concrete Demolition															
	Demolition Cost	Concrete demolition	ConcreteDemo1	4	ft											
	Concrete's Vol. Demolished															
	Landing Cost	Front end loader 3 CY	02315 424 1300	1.43/CY	CY											
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip	02315 480 0320	3.49/CY	CY											
	Disposal Costs	On site disposal	02220 240 5550	7.75/CY	CY											
	Subtotal															
	Concrete Demolition															
	Demolition Cost	Concrete demolition	ConcreteDemo1	4	ft											
	Concrete's Vol. Demolished															
	Landing Cost	Front end loader 3 CY	02315 424 1300	1.43/CY	CY											
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip	02315 480 0320	3.49/CY	CY											
	Disposal Costs	On site disposal	02220 240 5550	7.75/CY	CY											
	Subtotal															
	Total															\$1,639.00

Ref:	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
31	Sed Pond Cutout 31	Excavation 1 CY backhoe earth	02315 462 6040	13.1 CY												FT		33CY		\$432.00
	CMP 25																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			\$432.00
	Equipment's Disposal Cost																			
	Demolition Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			\$432.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
32	Gabion Retaining Wall 32																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			\$1,720.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
53	Water Wells 33 Structure's Demolition Cost Structure's Vol. Demolished Rubble's Weight (excluse steel)	Plug Well	AM1.3	\$0.00/EA.													4EA		\$20,000.00	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			\$20,000.00
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			\$20,000.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Quantity	Swell Factor	Unit Cost
3.4	Headwalls 34 Structure's Vol. Demolished Rubble's Weight (exclude steel) Truck's Capacity																		
	Haulage																		
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Dispose Cost Non Steel																		
	Steel's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Dispose Cost Steel																		
	Subtotal																		
	Equipment's Disposal Cost																		
	Demolition Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Total																		

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
	Overhead Conveyor Supports 35																		
	Structure's Demolition Cost																		
	Structure's Vol. Demolished																		
	Rubble's Weight (excluded steel)																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Cost Non Steel																		
	Steel's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Cost Steel																		
	Subtotal:																		
	Equipment's Disposal Cost																		
	Demolitioning Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
	Subtotal:																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal:																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal:																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal:																		
	Total																		\$607.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter Area	Volume	Weight	Density	Time	Number	Unit	Quantity	Swell Factor	Cost
36	Rubble Tunnel 36																	
	Structure's Demolition Cost																	
	Structure's Vol. Demolished																	
	Rubble's Weight (exclude steel)																	
	Truck's Capacity																	
	Haulage																	
	Transportation Cost Non Steel Truck																	
	Transportation Cost Non Steel Drive																	
	Disposal Cost Non Steel																	
	Steel's Weight																	
	Truck's Capacity																	
	Haulage																	
	Transportation Cost Steel Truck																	
	Transportation Cost Steel Truck Drive																	
	Disposal Cost Steel																	
	Subtotal																	
	Equipment's Disposal Cost																	
	Demolition Cost																	
	Equipment's Vol. Demolished																	
	Loading Costs																	
	Transport Costs																	
	Disposal Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Loading Cost																	
	Transportation Cost																	
	Disposal Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Loading Cost																	
	Transportation Cost																	
	Disposal Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Loading Cost																	
	Transportation Cost																	
	Disposal Costs																	
	Subtotal																	
	Total																	\$1,773.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
37	Feeder Boxes 37	Concrete Blk. Large	D2220 110 0050	0.37CF		13.5	8.5							3FT	0.35	5680CF	74CY	\$2,102.00	
	Structure's Vol. Demolished																		
	Rubble's Weight (exclude steel)																		
	Truck's Capacity																		
	Haulage	12 CY (18 Ton) Dump Truck 5 mi. rd. trip	D2315 490 0040	11.5CY															
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Cost Non Steel	Nelson Construction		7TON															
	Steel's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Deisel Oil Cost Steel																		
	Subtotal			\$3,445.00															
	Equipment's Disposal Cost																		
	Demolition Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost	Concrete demolition	Concrete Demo'1	6.81CY		8	5	0.5						3FT	1.3	514.00	2CY	\$14.00	
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost	Front end loader 3 CY	D2315 424 1900	1.49CY															
	Disposal Costs	12 CY (18 Ton) Dump Truck 1/2 mi. rd. trip	D2315 490 0020	3.49CY															
	Subtotal	On site disposal	D2220 240 5550	7.75CY															
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Total																	\$3,486.00	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
38	Reclaim Conveyor Supports 38																		
	Structure's Demolition Cost																		
	Structure's Vol. Demolished																		
	Rubble's Weight (excuse steel)																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Dispose Cost Non Steel																		
	Steel's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Dispose Cost Steel																		
	Subtotal																		
	Equipment's Disposal Cost																		
	Dismantling Cost																		
	Equipment's Vol. Demolished																		
	Leading Costs																		
	Transport Costs																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost		Concrete Demolition		ConcreteDemo1	6.61/CY		4.5	4.5	1									
	Concrete's Vol. Demolished																		
	Leading Cost		Front and loader 3 CY		02315.424 1300	1.49/CY													
	Transportation Cost		12 CY (18 Ton) Dump Truck 1/2 ml. rd. trip		02315.490 0320	3.49/CY													
	Dispose Costs		On site disposal		02220.240 5550	7.75/CY													
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost		Concrete demolition		ConcreteDemo1	6.61/CY		2	4	2									
	Concrete's Vol. Demolished																		
	Leading Cost		Front and loader 3 CY		02315.424 1300	1.49/CY													
	Transportation Cost		12 CY (18 Ton) Dump Truck 1/2 ml. rd. trip		02315.490 0320	3.49/CY													
	Dispose Costs		On site disposal		02220.240 5550	7.75/CY													
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Leading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Total																		\$70.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Quantity	Unit	Swell Factor	Time	Number	Cost
39	Crusher Platform Supports 39																	
	Structure's Demolition Cost																	
	Rubble's Vol. Demolished																	
	Rubble's Weight (exclude steel)																	
	Truck's Capacity																	
	Haulage																	
	Transportation Cost Non Steel Truck																	
	Transportation Cost Non Steel Drive																	
	Demolition Cost Non Steel																	
	Steel's Weight																	
	Truck's Capacity																	
	Haulage																	
	Transportation Cost Steel Truck																	
	Transportation Cost Steel Drive																	
	Demolition Cost Steel																	
	Subtotal																	
	Equipment's Disposal Cost																	
	Demolition Cost																	
	Equipment's Vol. Demolished																	
	Landing Costs																	
	Transport Costs																	
	Disposal Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Landing Cost																	
	Transportation Cost																	
	Disposal Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Landing Cost																	
	Transportation Cost																	
	Disposal Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Landing Cost																	
	Transportation Cost																	
	Disposal Costs																	
	Subtotal																	
	Total																	8880.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
40	Feeder Conveyor Supports 40 Structures's Vol. Demolished Rubble's Weight (excluded steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Dispose Cost Non Steel																			
	Steel's Weight																			
	Truck's Cap. capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Dispose Cost Steel																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Total																		\$70.00	

Ref.	Description	Materials	Unit	Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Quantity	Unit	Swell Factor	Time	Number	Unit	Cost
41	Scale Pads 41																		
	Structure's Demolition Cost																		
	Structure's Vol. Demolished																		
	Rubble's Weight (excludes steel)																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Costs Non Steel																		
	Steel's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Costs Steel																		
	Subtotal																		
	Equipment's Disposal Cost																		
	Demolition Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Transport Costs																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Costs																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Costs																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Costs																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Costs																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Total																	\$4,082.00	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
42	New Scale House 42	Steel Blk. Large	D2220 110 0012	0.28/CF	CF	20	20	8						FT	0.35	3200CF	41CY	\$832.00	
	Structure Demolition Cost																		
	Structure's Vol. Demolished																		
	Bubble's Weight. (exclude steel)																		
	Truck's Capacity	12 CY (18 Ton) Dump Truck 5 mi. rnd. trip	D2315 480 0540	11.15/CY	CY														
	Haulage																		
	Transportation Cost Non Steel																		
	Transportation Cost Non Steel Drive																		
	Disposal Cost Non Steel	Nielson Construction	7TON		TonCY														
	Steel's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Cost Steel																		
	Subtotal																		\$1,576.00
	Equipment's Disposal Costs																		
	Demolitioning Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport. Costs																		
	Disposal Costs																		
	Subtotal																		\$235.00
	Concrete Demolition																		
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81/CY	CY	20	30	0.5						FT	11CY	14CY			\$75.00
	Concrete's Vol. Demolished																		
	Loading Cost	Front end loader 3 CY	D2315 424 1300	1.43/CY	CY											1.3	14CY		
	Transportation Cost	12 CY (18 Ton) Dump Truck 1/2 mi. rnd. trip	D2315 480 0320	3.49/CY	CY														
	Disposal Costs	On site disposal	D2220 240 5550	7.75/CY	CY														
	Subtotal																		\$109.00
	Concrete Demolition																		
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81/CY	CY	3	6	1.5						FT	1.3	1CY			\$7.00
	Concrete's Vol. Demolished	Front end loader 3 CY	D2315 424 1300	1.43/CY	CY														
	Loading Cost	12 CY (18 Ton) Dump Truck 1/2 mi. rnd. trip	D2315 480 0320	3.49/CY	CY														
	Disposal Costs	On site disposal	D2220 240 5550	7.75/CY	CY														
	Subtotal																		\$19.00
	Concrete Demolition																		
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81/CY	CY	0.96	80	0.96						FT	1.3	1CY			\$7.00
	Concrete's Vol. Demolished	Front end loader 4 CY	D2315 424 1300	1.43/CY	CY														
	Loading Cost	12 CY (18 Ton) Dump Truck 1/2 mi. rnd. trip	D2315 480 0320	3.49/CY	CY														
	Disposal Costs	On site disposal	D2220 240 5550	7.75/CY	CY														
	Subtotal																		\$19.00
	Total																		\$1,867.00

Ref.	Description	Materials	Means Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
43	Proposed Bathhouse 43	Steel Blt. Lengte	02220 110 0012	0.26/CF	CF	60	100	18						FT	0.35	1080000 CY	1400 CY	\$20,080.00		
	Structure & Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage	12 CY (16 Ton) Dump Truck 5 mi. rd. trip	02315 480 0540	11.15/CY	CY															
	Transportation Cost Non Steel Drive																			
	Transportation Cost Non Steel Drive	Nielson Construction	Nielson Con.	7/TON	TON															
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Dispose Cost Steel																			
	Subtotal																			\$53,480.00
	Equipment's Disposal Cost																			
	Demolition Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished	Concrete demolition	ConcreteDemo1	6.81/CY	CY	60	100	0.5												
	Loading Cost																			
	Transportation Cost	Front end loader 2 CY	02315 424 1300	1.43/CY	CY															
	Dispose Costs	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip	02315 480 0320	3.49/CY	CY															
	Subtotal	On site disposal	02220 240 5550	7.75/CY	CY															
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished	Concrete demolition	ConcreteDemo1	6.81/CY	CY	3	320	1.5												
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.43/CY	CY															
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip	02315 480 0320	3.49/CY	CY															
	Dispose Costs	On site disposal	02220 240 5550	7.75/CY	CY															
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished	Concrete demolition	ConcreteDemo1	6.81/CY	CY	1	80	0.98												
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.43/CY	CY															
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip	02315 480 0320	3.49/CY	CY															
	Dispose Costs	On site disposal	02220 240 5550	7.75/CY	CY															
	Subtotal																			
	Total																			\$57,388.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
44	Coal Site 44																		
	Structure's Demolition Cost	Steel Blk. Large	02220 110 0012	0.29/CF															
	Structure's Vol. Demolished																		
	Rubble's Weight (excavate steel)																		
	Haulage																		
	Transportation Cost Non Steel Truck	12 CY (18 Ton) Dump Truck 5 mi. mid. trip	02315 480 0540																
	Transportation Cost Non Steel Drive																		
	Dispose Cost Non Steel	Nelson Construction																	
	Steel's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Dispose Cost Steel																		
	Subtotal																	\$3,361.00	
	Equipment's Disposal Cost																		
	Demanding Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Total																	\$3,361.00	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
45	Conveyors 45' Structure's Demolition Cost	Steel Blkd. Lame	02220 110 0012	0.260/CF	CF	5	780	4								FT	0.35	15800/CF	\$4,056.00
	Structure's Vol. Demolished															202CY			
	Rubble's Weight (exclude steel)																		
	Trucks' Capacity																		
	Haulage	12 CY (18 Ton) Dump Truck 5 mi. rnd. trip	02315 480 0540	11.15/CY	CY														
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Costs Steel	Nelson Construction														TonCY			
	Steel's Weight																		
	Truck's Cap. capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Costs Steel																		
	Subtotal																		\$7,722.00
	Equipment's Disposal Cost																		
	Dismantling Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Total																		\$7,722.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Quantity	Swell Factor	Cost
46	Parking Lot 46																		
	Structure's Demolition Cost																		
	Structure's Vol. Demolished																		
	Rubble's Weight (exclude steel)																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Cost Non Steel																		
	Steel's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Cost Steel																		
	Subtotal																		
	Equipment's Disposal Cost																		
	Demolishing Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Front end loader 3 CY																		
	12 CY (16 Ton) Dump Truck 1/2 mi. rd.																		
	On site disposal																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Total																		\$50,445.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
47	Rubber-tire 47																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished		Mechanical equipment heavy																	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			\$28,050.00
	Equipment's Disposal Cost																			
	Demolitioning Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			\$28,050.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
48	Culvert Bedding Removal	48																	
	Structure's Demolition Cost																		
	Rubble's Weight (excludes steel)																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Cost Non Steel																		
	Steel's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Cost Steel																		
	Subtotal																		
	Equipment's Disposal Cost																		
	Demolition Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
	Subtotal																		
	Stream Bed Sand																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Culvert Bed Sand																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Total																		\$145,670.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	See Backfilling & Grading Plan																			
40	Off Site Dump Fee																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			\$88,088.00
	Equipment's Disposal Cost																			
	Demolition Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			\$88,088.00
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			\$88,088.00
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			\$88,088.00
	Total																			

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Quantity	Unit	Swell Factor	Time Number	Time	Cost
See Backfilling and Grading																		
Drainage Control 50																		
Structure's Demolition Cost																		
Structure's Vol. Demolished																		
Rubble & Waste (exclude steel)																		
Truck's Capacity																		
Haulage																		
Transportation Cost Non Steel Truck																		
Transportation Cost Non Steel Drive																		
Dispose Costs Non Steel																		
Steel's Weight																		
Truck's Capacity																		
Haulage																		
Transportation Cost Steel Truck																		
Transportation Cost Steel Drive																		
Dispose Costs Steel																		
Subtotal																		
Filler Material		Sift Screen	\$2370.700	1.00	LF	3000												
Rip-Rap		Rip-Rap dumped 300 lbs. average	\$2370.450	0.370	TON	2100												
		Subtotal																\$79,820.00
Concrete Demolition																		
Demolition Cost																		
Concrete's Vol. Demolished																		
Loading Cost																		
Transportation Cost																		
Disposal Costs																		
Subtotal																		
Concrete Demolition																		
Demolition Cost																		
Concrete's Vol. Demolished																		
Loading Cost																		
Transportation Cost																		
Disposal Costs																		
Subtotal																		
Concrete Demolition																		
Demolition Cost																		
Concrete's Vol. Demolished																		
Loading Cost																		
Transportation Cost																		
Disposal Costs																		
Subtotal																		
Total																		\$79,820.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
	Structure's Demolition Cost																		
	Structure's Vol. Demolished																		
	Truck's Weight (excludes steel)																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Dispose Cost Non Steel																		
	Steel's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Dispose Cost Steel																		
	Subtotal																		
	Equipment's Dispose Cost																		
	Demolitioning Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transport Cost																		
	Dispose Costs																		
	Subtotal																		
	Total																		

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Dispose Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Dispose Cost Steel																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Demolition Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Total																			

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter Area	Volume	Weight	Density	Time	Number	Unit	Quantity	Swell Factor	Cost
	Structure's Demolition Cost																	
	Structure's Vol. Demolished																	
	Rubble's Weight (exclude steel)																	
	Truck's Capacity																	
Haulage																		
	Transportation Cost Non Steel Truck																	
	Transportation Costs Non Steel Drive																	
	Disposal Cost Non Steel																	
	Steel's Weight																	
	Truck's Capacity																	
Haulage																		
	Transportation Cost Steel Truck																	
	Transportation Costs Steel Truck Drive																	
	Dispose Cost Steel																	
	Subtotal																	
	Equipment's Diesel Cost																	
	Demolition's Cost																	
	Equipment's Vol. Demolished																	
	Loading Costs																	
	Transport Costs																	
	Disposal Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Loading Cost																	
	Transportation Cost																	
	Dispose Cost																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Loading Cost																	
	Transportation Cost																	
	Dispose Cost																	
	Subtotal																	
	Total																	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Structure's Demolition Cost																			
	Structure's Voi. Demolished																			
	Rubble's Weight (excluse steel)																			
	Truck's Capacity																			
Haulage																				
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
Haulage																				
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
Subtotal																				
	Equipment's Disposal Cost																			
	Demolition's Cost																			
	Equipment's Voi. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
Subtotal																				
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Voi. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
Subtotal																				
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Voi. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
Subtotal																				
	Total																			

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Structure's Demolition Cost																		
	Structure's Vol. Demolished																		
	Rubble's Weight (exclude steel)																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Cost Non Steel																		
	Steel's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Cost Steel																		
	Subtotal																		
	Equipment's Disposal Cost																		
	Demolition Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Total																		

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Quantity	Unit	Swell Factor	Cost
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Trubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Dispose Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Dispose Cost Steel																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Leasing Costs																			
	Transport Costs																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Concrete Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Total																			

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Quantity	Unit	Swell Factor	Time	Number	Cost
	Structure's Demolition Cost																	
	Structure's Vol. Demolished																	
	Rubble's Weight (exclude steel)																	
	Trucks Capacity																	
Haulage																		
	Transportation Cost Non Steel	Truck																
	Transportation Cost Non Steel Drive																	
	Disposal Costs Non Steel																	
	Steel's Weight																	
	Truck's Capacity																	
Haulage																		
	Transportation Cost Steel Truck																	
	Transportation Cost Steel Truck Drive																	
	Disposal Costs Steel																	
	Subtotal																	
	Equipment's Disposal Costs																	
	Dismantling Cost																	
	Equipment's Vol. Demolished																	
	Leasing Costs																	
	Transport Costs																	
	Disposal Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Leasing Cost																	
	Transportation Cost																	
	Disposal Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Leasing Cost																	
	Transportation Cost																	
	Disposal Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Leasing Cost																	
	Transportation Cost																	
	Disposal Costs																	
	Subtotal																	
	Total																	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
	Structure's Demolition Cost																		
	Structure's Vol. Demolished																		
	Rubble's Weight (exclude steel)																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Cost Non Steel																		
	Steel's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Cost Steel																		
	Subtotal																		
	Equipment's Disposal Cost																		
	Dismantling Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Total																		

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Bubble's Weight (exclude steel)																			
	Truck's Capacity																			
Haulage																				
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
Truck's Capacity																				
Haulage																				
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
Subtotal																				
	Equipment's Disposal Cost																			
	Demolitioning Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
Subtotal																				
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
Subtotal																				
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
Subtotal																				
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
Subtotal																				
	Total																			

Ref.	Description	Material	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (excluded steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Dispose Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Dispose Cost Steel																			
	Subtotal																			
	Equipment's Disposal Costs																			
	Demolitioning Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Total																			

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Quantity	Swell Factor	Cost
	Structure's Demolition Cost																		
	Structure's Vol. Demolished																		
	Rubble's Weight (exclude steel)																		
	Truck's Capacity																		
Haulage																			
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Cost Non Steel																		
Steel's Weight																			
Truck's Capacity																			
Haulage																			
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Cost Steel																		
Subtotal																			
	Equipment's Disposal Cost																		
	Demolition Cost																		
	Equipment's Vol. Demolished																		
	Equipment's Loading Costs																		
	Transport. Costs																		
	Disposal Costs																		
Subtotal																			
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Concrete's Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
Subtotal																			
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Concrete's Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
Subtotal																			
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Concrete's Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
Subtotal																			
	Total																		

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
	Structure's Demolition Cost																		
	Structure's Vol. Demolished																		
	Rubble's Weight (exclude steel)																		
	Truck's Capacity																		
Haulage																			
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Cost Non Steel																		
Steel's Weight																			
Truck's Capacity																			
Haulage																			
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Cost Steel																		
Subtotal																			
	Equipment's Disposal Cost																		
	Demanding Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
Subtotal																			
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
Subtotal																			
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
Subtotal																			
	Total																		

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Quantity	Unit	Swell Factor	Number	Time	Density	Time	Unit	Cost
	Structure's Demolition Cost																				
	Structure's Vol. Demolished																				
	Rubble's Weight (exclude steel)																				
	Trucks Cap. capacity																				
Haulage																					
	Transportation Cost Non Steel	Truck																			
	Transportation Cost Non Steel Drive																				
	Dispose Cost Non Steel																				
	Steels' Weight																				
	Trucks' Capacity																				
Heavies																					
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Dispose Cost Steel																				
	Subtotal																				
	Equipment's Disposal Costs																				
	Demolitioning Cost																				
	Equipment's Vol. Demolished																				
	Leasing Costs																				
	Transport Costs																				
	Dispose Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Leasing Cost																				
	Transportation Cost																				
	Dispose Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Leasing Cost																				
	Transportation Cost																				
	Dispose Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Leasing Cost																				
	Transportation Cost																				
	Dispose Costs																				
	Subtotal																				
	Total																				

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time Number	Unit	Swell Factor	Quantity	Unit	Cost
	Structure's Demolition Cost																		
	Structure's Vol. Demolished																		
	Rubble's Weight (exclude steel)																		
	Truck's Capacity																		
Haulage																			
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Dispose Cost Non Steel																		
	Steel's Weight																		
Truck's Capacity																			
Haulage																			
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Dispose Cost Steel																		
Subtotal																			
	Equipment's Disposal Cost																		
	Demolition's Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Dispose Costs																		
Subtotal																			
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
Subtotal																			
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
Subtotal																			
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
Subtotal																			
	Total																		

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Quantity	Unit	Swell Factor	Time	Number
	Structure's Demolition Cost																
	Structure's Vol. Demolished																
	Rubble's Weight (exclude steel)																
	Truck's Capacity																
Haulage																	
	Transportation Cost Non Steel Truck																
	Transportation Cost Non Steel Drive																
	Disposal Cost Non Steel																
	Steel's Weight																
	Truck's Capacity																
Haulage																	
	Transportation Cost Steel Truck																
	Transportation Cost Steel Truck Drive																
	Disposal Cost Steel																
	Subtotal																
	Equipment's Disposal Cost																
	Demolition Cost																
	Equipment's Vol. Demolished																
	Lending Costs																
	Transport Costs																
	Decose Costs																
	Subtotal																
	Concrete Demolition																
	Concrete Demolition Cost																
	Concrete's Vol. Demolished																
	Lending Cost																
	Transportation Cost																
	Disposal Costs																
	Subtotal																
	Concrete Demolition																
	Concrete Demolition Cost																
	Concrete's Vol. Demolished																
	Lending Cost																
	Transportation Cost																
	Disposal Costs																
	Subtotal																
	Concrete Demolition																
	Concrete Demolition Cost																
	Concrete's Vol. Demolished																
	Lending Cost																
	Transportation Cost																
	Disposal Costs																
	Subtotal																
	Total																

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
	Structure's Demolition Cost																		
	Structure's Vol. Demolished																		
	Rubble's Weight (exclude steel)																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Dispose Cost Non Steel																		
	Steel's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Dispose Cost Steel																		
	Subtotal																		
	Equipment's Dispose Cost																		
	Demolition Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Dispose Costs																		
	Subtotal																		
	Total																		

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
	Structure's Demolition Cost																		
	Structure's Vol. Demolished																		
	Rubbish's Weight (excuse steel)																		
	Truck's Capacity																		
Haulage																			
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Costs Non Steel																		
	Steel's Weight																		
	Truck's Capacity																		
Haulage																			
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Cost Steel																		
	Subtotal																		
	Equipment's Disposal Cost																		
	Demolition Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Costs																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Costs																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Total																		

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (excludes steel)																			
	Truck's Capacity																			
Haulage																				
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Dispose Cost Non Steel																			
Steel's Weight																				
Truck's Capacity																				
Haulage																				
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Dispose Cost Steel																			
Subtotal																				
	Equipment's Disposal Cost																			
	Demolitity Cost																			
	Equipment's Vol. Demolished																			
	Leasing Costs																			
	Transport Costs																			
	Dispose Costs																			
Subtotal																				
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Leasing Cost																			
	Transportation Cost																			
	Dispose Costs																			
Subtotal																				
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Leasing Cost																			
	Transportation Cost																			
	Dispose Costs																			
Subtotal																				
	Total																			

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Quantity	Unit	Swell Factor	Time Number	Cost
	Structure's Demolition Cost																
	Structure's Vol. Demolished																
	Rubble's Weight (excluded steel)																
	Truck's Capacity																
	Haulage																
	Transportation Cost Non Steel Truck																
	Transportation Cost Non Steel Drive																
	Dispose Cost Non Steel																
	Steel's Weight																
	Trucks Capacity																
	Haulage																
	Transportation Cost Steel Truck																
	Transportation Cost Steel Truck Drive																
	Dispose Cost Steel																
	Subtotal																
	Equipment's Disposal Costs																
	Dismantling Cost																
	Equipment's Vol. Demolished																
	Loading Costs																
	Transport Costs																
	Dispose Costs																
	Subtotal																
	Concrete Demolition																
	Demolition Cost																
	Concrete's Vol. Demolished																
	Loading Cost																
	Transportation Cost																
	Dispose Costs																
	Subtotal																
	Concrete Demolition																
	Demolition Cost																
	Concrete's Vol. Demolished																
	Loading Cost																
	Transportation Cost																
	Dispose Costs																
	Subtotal																
	Total																

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Quantity	Unit	Swell Factor	Cost
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Dispose Costs Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Dispose Costs Steel																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Total																			

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
	Structure's Demolition Cost																		
	Structure's Vol. Demolished																		
	Flubble's Weight (exclude steel)																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Cost Non Steel																		
	Steel's Weight																		
	Truck's Capacity																		
	Haulage																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Cost Steel																		
	Subtotal																		
	Equipment's Disposal Cost																		
	Demantling Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Total																		

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Quantity	Unit	Swell Factor	Cost
	Structure's Demolition Cost															
	Structure's Vol. Demolished															
	Rubble's Weight (exclude steel)															
	Truck's Capacity															
	Heulage															
	Transportation Cost Non Steel Truck															
	Transportation Cost Non Steel Drive															
	Disposal Cost Non Steel															
	Steel's Weight															
	Truck's Capacity															
	Heulage															
	Transportation Cost Steel Truck															
	Transportation Cost Steel Truck Drive															
	Disposal Cost Steel															
	Subtotal															
	Equipment's Disposal Cost															
	Demolition Cost															
	Equipment's Vol. Demolished															
	Loading Costs															
	Transport Costs															
	Disposal Costs															
	Subtotal															
	Concrete Demolition															
	Demolition Cost															
	Concrete's Vol. Demolished															
	Loading Cost															
	Transportation Cost															
	Disposal Costs															
	Subtotal															
	Concrete Demolition															
	Demolition Cost															
	Concrete's Vol. Demolished															
	Loading Cost															
	Transportation Cost															
	Disposal Costs															
	Subtotal															
	Concrete Demolition															
	Demolition Cost															
	Concrete's Vol. Demolished															
	Loading Cost															
	Transportation Cost															
	Disposal Costs															
	Subtotal															
	Total															

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
	Structure's Demolition Cost																		
	Structure's Vol. Demolished																		
	Rubble's Weight (exclude steel)																		
Haulage	Trucks Capacity																		
	Transportation Cost Non Steel	Truck																	
	Transportation Cost Non Steel Drive																		
	Disposal Cost Non Steel																		
	Steel's Weight																		
Truck's Capacity																			
Haulage																			
	Transportation Cost Steel Truck	Truck																	
	Transportation Cost Steel Truck Drive																		
	Disposal Cost Steel																		
Subtotal																			
	Equipment's Disposal Cost																		
	Dismantling Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
Subtotal																			
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
Subtotal																			
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
Subtotal																			
	Trail																		

Ref.	Description	Materials	Quantity	Unit	Cost
			Number	Time	Density
			Length	Height	Diameter
	Structure's Demolition Cost				
	Structure's Vol Demolished				
	Bubble's Weight (exclude steel)				
	Truck's Capacity				
	Haulage				
	Transportation Cost Non Steel Truck				
	Transportation Cost Non Steel Drive				
	Disposal Cost Non Steel				
	Steel's Weight				
	Truck's Capacity				
	Haulage				
	Transportation Cost Steel Truck				
	Transportation Cost Steel Truck Drive				
	Disposal Cost Steel				
	Subtotal				
	Equipment's Disposal Cost				
	Demolition Cost				
	Equipment's Vol Demolished				
	Loading Costs				
	Transport Costs				
	Disposal Costs				
	Subtotal				
	Concrete Demolition				
	Demolition Cost				
	Concrete's Vol Demolished				
	Loading Cost				
	Transportation Cost				
	Disposal Costs				
	Subtotal				
	Concrete Demolition				
	Demolition Cost				
	Concrete's Vol Demolished				
	Loading Cost				
	Transportation Cost				
	Disposal Costs				
	Subtotal				

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Ds.	Units	Cost
Crandall Canyon Mine Backfilling and Grading															
Ripping Fill Area (DR Dozer)															
DR Sem-U EROPS (8-54) (2H2005)	18485	80.3	0.1	55.4	259.26	1	259.26\$HR		57387CY	147.3CY/HR		39-HR		\$10,111.00	
DR Sem-U EROPS (8-54) (2nd2005)	2970	8.95	0.1	28.41	28.41\$HR	1	28.41\$HR					39-HR		\$1,098.00	
Subtotal															\$11,209.00
Buckfill On Site															
Landing															
988G EROPS (8-37) (2nd2005) 2005	9010	40.05	0.1	55.4	155.77	1	155.77\$HR		70192CY	498CY/HR		140.9-HR		\$21,946.00	
Hauling															
78D (20-11) (2nd2005)	11150	46.35	0.1	43.3	183.97	2	327.94\$HR		70192CY	488CY/HR		140.9-HR		\$46,207.00	
Place w/ Excavator															
CAT 365B E. (10-23) (2nd2005) (2005)	25485	115.15	0.1	55.4	341.35	1	341.35\$HR		12805CY	181.3CY/HR		70.8-HR		\$24,099.00	
Place w/ Dozer															
DR Sem-U EROPS (8-54) (2H2005)	18485	80.3	0.1	55.4	259.26	1	259.26\$HR		57387CY	215CY/HR		268.9-HR		\$89,198.00	
Subtotal															\$161,450.00
Buckfill On Site															
Landing															
988G EROPS (8-37) (2nd2005) 2005	9010	40.05	0.1	55.4	155.77	1	155.77\$HR		68098CY	583CY/HR		113.4-HR		\$17,884.00	
Hauling															
BXX 65,000 lbs 15-18 CY (20-11) (2nd2005)	4675	33.5	0.1	43.3	108.37	17	1859.29\$HR		68098CY	583CY/HR		113.4-HR		\$21,0843.00	
Subtotal															\$226,507.00
Miscellaneous Removal/Excavate Stream Channels															
440D 4WD (8-20) (2nd2005)	4935	22.4	0.1	55.4	110.88	1	110.88\$HR		150CY	151.1CY/HR		10.3-HR		\$1,142.00	
Subtotal															\$1,142.00
Total Buckfilling and Grading															\$402,316.00

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Ds.	Units	Cost
Crandell Canyon Mine															
Topsoil Distribution															
Load From Topsoil Stockpile															
Load															
866G Series II EROPS (8-36) (2nd2005)	7170	32.65	0.1	55.4	136.13	1	136.13\$	HR	1073	CY	298.8	CY/HR	35.9	HR	\$4,887.00
Haul															
8x4 50,000lbs 10-12 CY (20-15) (2nd2005)	3225	26.8	0.1	43.3	92.84	5	464.7	\$	1073	CY	298.8	CY/HR	35.9	HR	\$16,983.00
Subtotal															\$21,570.00
Place Topsoil															
Place with Wheel Loader															
866G Series II EROPS (8-36) (2nd2005)	7170	32.65	0.1	55.4	136.13	1	136.13\$	HR	735	CY	180.1	CY/HR	45.9	HR	\$8,248.00
Grading															
D7R Series II (8-54) (2nd2005)	11230	46.65	0.1	55.4	176.9	1	176.9\$	HR	735	CY	145	CY/HR	50.7	HR	\$8,968.00
Excavator															
CAT 385BL (15-23) (2nd2005) (2005)	25485	115.15	0.1	55.4	341.35	1	341.35\$	HR	338	CY	181.3	CY/HR	18.7	HR	\$6,393.00
Subtotal															\$21,860.00
Total															\$43,170.00

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Production Rate	Units	Equip. + Labor Time@Rs.	Units	Cost
Crandell Canyon Mine Support Equipment and Labor														
Backfilling														
5,000 cu yd Diesel (20-17) (End 2005)	4890	31.95	0.1	43.3	109.83	1	109.83					309.49		309.49
Pickup truck Crew 5k 1 ton (20-17) (End 2005)	900	5.4	0.1	0	11.57	1	11.57					308.49		308.49
Foreman Average - Outside						59.9	59.9					308.49		308.49
Subtotal														554.16
Total														554.16

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Vegetation																				
	Non Riparian																			
	Hydroseed Equipment and Labor	Hydro Spreader (equip. & labor) B-81	Rew005	10.9/MSF	AC													261.36MSF	5175	
	Hydroseed Materials	Seed Non Riparian Area	Crandall 5321	261.75/AC	AC													0.9AC	1690	
	Hydromulch Equipment and Labor	Hydro Spreader (equip. & labor) B-81 80MSF	Rew002	19.6/MSF	AC													261.36MSF	5175	
	Hydromulch Material	Hay 1' material only 029105000250	Rew001	69.85/MSF	AC													261.36MSF	18256	
	Transplant																			
	Non Riparian																			
	Transplant Labor /50/A/C	Bare root seedlings, 11" to 16" med. soil	029154000562	1.31/E _a	EA													675EA	675EA	894
	Transplant Material	Transplants Non Riparian	Crandall 5322	118.55/AC	AC													4.5AC	4.5AC	533
	Transplant North Slope																			
	In addition to Non-Riparian Trans.																			
	Transplant Labor /50/A/C	Bare root seedlings, 11" to 16" med. soil	029154000562	1.31/E _a	EA													2300EA	2300EA	3013
	Transplant Material	Transplants North Slopes	Crandall 5323	165.95/AC	AC													1.9AC	1.9AC	3349
	Riparian																			
	Hydroseed Equipment and Labor	Hydro Spreader (equip. & labor) B-81	Rew005	19.0/MSF	AC													13.07MSF	259	
	Hydroseed Materials	Seed Riparian Area	Crandall 5324	261.01/5AC	AC													0.3AC	78	
	Hydromulch Equipment and Labor	Hydro Spreader (equip. & labor) B-81 80MSF	Rew002	19.6/MSF	AC												13.07MSF	259		
	Hydromulch Material	Hay 1' material only 029105000250	Rew001	69.85/MSF	AC												13.07MSF	913		
	Transplant																			
	Riparian																			
	Transplant Labor /50/A/C	Bare root seedlings, 11" to 16" med. soil	029154000562	1.31/E _a	EA													186EA	186EA	248
	Transplant Material	Transplants Riparian	Crandall 5325	1987.5/AC	AC													0.3AC	0.3AC	590
	Subtotal																			
	Revegetation																			
	Assume 25% revegetation rate																			
	Subtotal																			
	Total																			

Ref.	Description	Material	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Demolition Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Dispose Cost Non Steel																			
	Steel's Weight																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Dispose Cost Steel																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Dispose Costs																			
	Subtotal																			
	Total																			

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Quantity	Unit	Swell Factor	Time	Number	Cost
	Structure's Demolition Cost																	
	Structure's Vol. Demolished																	
	Flubble's Weight (excuse steel)																	
	Transportation Cost Non Steel Truck																	
	Transportation Cost Non Steel Drive																	
	Dispose Cost Non Steel																	
	Steel's Weight																	
	Transportation Cost Steel Truck																	
	Transportation Cost Steel Truck Drive																	
	Dispose Cost Steel																	
	Subtotal																	
	Equipment's Disposal Cost																	
	Demolitioning Cost																	
	Equipment's Vol. Demolished																	
	Loading Costs																	
	Transport Costs																	
	Dispose Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Loading Cost																	
	Transportation Cost																	
	Dispose Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Loading Cost																	
	Transportation Cost																	
	Dispose Costs																	
	Subtotal																	
	Concrete Demolition																	
	Demolition Cost																	
	Concrete's Vol. Demolished																	
	Loading Cost																	
	Transportation Cost																	
	Dispose Costs																	
	Subtotal																	
	Total																	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit Cost
	Structure's Demolition Cost																		
	Structure's Vol. Demolished																		
	Rubble's Weight (excluude steel)																		
	Transportation Cost Non Steel Truck																		
	Transportation Cost Non Steel Drive																		
	Disposal Cost Non Steel																		
	Steel's Weight																		
	Transportation Cost Steel Truck																		
	Transportation Cost Steel Truck Drive																		
	Disposal Cost Steel																		
	Subtotal																		
	Equipment's Disposal Cost																		
	Dismantling Cost																		
	Equipment's Vol. Demolished																		
	Loading Costs																		
	Transport Costs																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Concrete Demolition																		
	Demolition Cost																		
	Concrete's Vol. Demolished																		
	Loading Cost																		
	Transportation Cost																		
	Disposal Costs																		
	Subtotal																		
	Total																		

CHAPTER 7 APPENDICES

<u>APPENDIX NUMBER</u>	<u>DESCRIPTION</u>
7-1	Water Rights Information
7-2	Crandall Creek Flow Data
7-3	Crandall Greek Water Quality Data
7-4	Sedimentation and Drainage Control Plan
7-5	Crandall Creek Flow Calculations
7-6	Deleted
7-7	Diversion Calculations
7-8	Deleted
7-9	Small Area Exemption Calculations
7-10	Deleted
7-11	Deleted
7-12	Letter from U.S. Soil Conservation Service Concerning Alluvial Valley Floors in the Crandall Canyon Area
7-13	Municipal Watershed Description
7-14	Water Share Certificate
7-15	Probable Hydrologic Consequences Determination
7-16	Geologic Occurrence and Use of Seeps and Springs
7-17	Seep and Spring Flow Rate and Temperature Measurements

CHAPTER 7
LIST OF PLATES

<u>PLATE NUMBER</u>	<u>DESCRIPTION</u>
PLATE 7-1	Crandall Creek Plan and Profile
PLATE 7-2	Crandall Creek Cross Sections
PLATE 7-3	Proposed Pond Details
PLATE 7-4	Deleted
PLATE 7-4A	Deleted
PLATE 7-5	Drainage Map
PLATE 7-5A	Cross Sections
PLATE 7-5B	Cross Sections, As Built
PLATE 7-5C	Watershed Boundary Map
PLATE 7-6	Deleted
PLATE 7-6A	Deleted
PLATE 7-7	Exploration Drill Hole and Hiawatha Coal Outcrop Locations
PLATE 7-8	Blind Canyon Watershed Land Types
PLATE 7-9	Terratek Blind Canyon Watershed Subsidence Modeling
PLATE 7-10	Blind Canyon Watershed Land Types & Drainage
PLATE 7-11	Pre & Postmining Blind Canyon Topography
PLATE 7-12	Seep and Spring Locations
PLATE 7-13	Potentiometric Surface of Spring Canyon Member, Star Point Formation
PLATE 7-14	Groundwater Rights

7.31.7 Cross Sections and Maps

Cross sections and maps, as required for R645-301-731.700, are presented within this application.

7.31.8 Water Rights and Replacement

In the event that the monitoring program identifies an impact to the water source in the permit and adjacent areas, the replacement of water rights will be addressed as described in Section 7.27 of this application.

7.3 Sediment Control Measures

The sediment control measures for the Crandall Canyon Mine operations are discussed in Section 7.42 of this application. This includes design, operation and maintenance of applicable siltation structures, sedimentation pond, diversions, and road drainage, as required.

7.33 Impoundments

There are no permanent impoundments associated with GENWAL's operations. Temporary impoundments of water collected for runoff control will occur in the sediment ponds and containment berms. The design of these structures is presented in Section 7.42 and 7.43 of this application.

7.34 Discharge Structures

Discharge from the sediment ponds is conveyed by a 18-inch CMP culvert (principal spillway) and an open channel concrete lined emergency spillway. The outlets of these spillways are protected by riprap. This design complies with R645-301-744.

7.35 Disposal of Excess Spoil

No significant excess spoil has been or will be developed by operating the underground mine. The only anticipated excess material will be from the sediment ponds. This limited volume of material will be removed from the ponds transported to an approved refuse disposal site, disposed of underground or sold with the coal.

7.36 Coal Mine Waste

Any refuse will be disposed of in accordance with the designs presented in Chapter 5 and Section 7.46 of this application.

Runoff- and Sediment-Control Facilities

Results of analyses to determine the required size and hydraulics of the sedimentation pond are included in Appendix 7-4. Details of the sedimentation pond required for compliance with 30 CFR 77.216-1 and 30 CFR 77.216-2 are contained in Appendix 7-8. Permanent disposal of the sediment removed during cleanout will be in accordance with Section 535.

Prior to any discharges through the decant system on the sedimentation pond, a sample will be collected to determine total suspended solids, settleable solids, total dissolved solids, oil and grease, total iron, total manganese concentrations, and pH. The sample will be collected by opening the gate valve on the dewatering device, allowing water to flow from the pond through the primary spillway for a sufficient time to collect a sample of the water, and then immediately shutting the gate valve to prevent further dewatering. This sample will then be submitted to a laboratory for analyses of the indicated parameters.

After receipt of analytical results from the laboratory, if the pH and concentrations of total suspended solids, settleable solids, total dissolved solids, oil and grease, total iron, and total manganese are within the acceptable limits, water will be discharged from the pond through the dewatering device. If the parameters of concern are not within the acceptable limits, no water will be discharged through the device.

During discharge of water to Crandall Creek from the sedimentation pond, samples of the water will be collected at the discharge point at the beginning and end of the discharge time. These samples will be sent to a laboratory following the discharge period for analyses of total suspended solids, settleable solids, total dissolved solids, total iron, total manganese, oil and grease, and pH. Analytical results will be submitted to the Division with the subsequent quarterly report.

The emergency spillway discharges onto the boulder-covered slope adjacent to the sedimentation pond. Boulders that cover this slope were blasted from the cut above the pond during construction of the mine-access road. Due to the large size of the boulders, laboratory size-fraction analyses could not be conducted. However, the boulders are visually estimated to range in size up to at least 10 feet in diameter. It is further estimated that approximately 80 percent of the coarse rock on the slope is finer than 8 feet in diameter, 30 percent is finer than 5 feet in diameter, and 10 percent is finer than 3 feet in diameter.

The blasted rock has an approximate thickness of 15 to 20 feet at the top of the slope and 5 to 6 feet at the bottom of the slope. The soil that underlies the rock is a silty sand. Size-fraction

analyses presented by Delta Geotechnical Consultants (1982) indicate that this soil is 70 percent sand and 30 percent silt and clay (the latter being minus 200 mesh).

The emergency spillway is lined with riprap and a filter blanket to reduce erosion potential. A concrete cutoff has also been installed immediately downstream of the inlet. The concrete cutoff ensures that the emergency spillway will not erode during a discharge event. Grading of the riprap, filter blanket, and embankment materials are shown in Figure 7-10. The spillway will discharge directly onto the boulder-covered slope. Due to the extreme thickness of the boulders and cobbles on the slope, additional erosion protection below the emergency spillway will not be required.

All new fill required to modify the mebankment will be placed in 6-inch lifts. This new fill will be compacted in place by repeated passes of a front-end loader or equivalent prior to placing the next lift. Compaction will continue until the density of the material is at least 90 percent of Proctor density (as determined by sandcone density tests in the field).

As included in the original design, the interior of the pond will be lined with a 12-inch thick local, compacted clay to reduce seepage from the pond and, thereby increase the stability of the embankment. The clay liner will be placed in 66-inch lifts and compacted during placement by at least four passes of a front-end loader or equivalent. The initial layer will be disk-harrowed into the bottom of the pond to completion.

After pond cleanout, the thickness of the clay liner will be sampled by means of a bucket auger at 8 locations. Three holes will be placed along the ingress/egress route and five additional holes will be randomly selected from the remaining pond area. If any of the holes penetrates less than 10 inches of clay, additional clay will be compacted into the deficient areas of the pond.

REPLACE THESE PAGES IN APPENDIX 7-4

CRANDALL CANYON MINE
SEDIMENTATION AND DRAINAGE CONTROL PLAN

TABLE 12
SEDIMENT POND
STAGE / VOLUME DATA

Elev.	Area	Volume	Acc. Volume (ac.ft.)	Remarks
7766	1756.67	.0000	.0000	<i>Bottom of Pond</i>
7767	3706.92	2731.80	0.063	
7768	5119.14	4413.03	0.164	
7769	5857.00	5488.07	0.290	<i>Sediment Cleanout Level</i>
7770	6949.54	6403.32	0.437	<i>Maximum Sediment Level</i>
7771	7806.54	7378.14	0.606	
7772	8894.51	8350.53	0.798	
7773	9905.02	9399.77	1.014	
7774	11055.91	10480.47	1.254	
7775	12153.06	11604.49	1.520	
7776	13120.22	12636.64	1.810	
7777	14084.05	13602.14	2.123	
7778	15043.33	14563.69	2.457	
7779	15984.66	15514.00	2.813	
7780	16934.94	16459.15	3.191	
7780.81	17669.26	14014.70	3.513	<i>Principal Spillway</i>
7781	17868.13	3376.05	3.591	
7781.81	18661.53	15028.20	3.936	<i>Emergency Spillway</i>
7782	18848.42	3430.08	4.012	
7783	19886.14	19367.28	4.457	
7784	21113.55	20499.85	4.927	
7785	22110.39	21611.97	5.423	<i>Top of Embankment</i>

STAGE-VOLUME GENERAL SEDIMENT POND (As-Constructed)

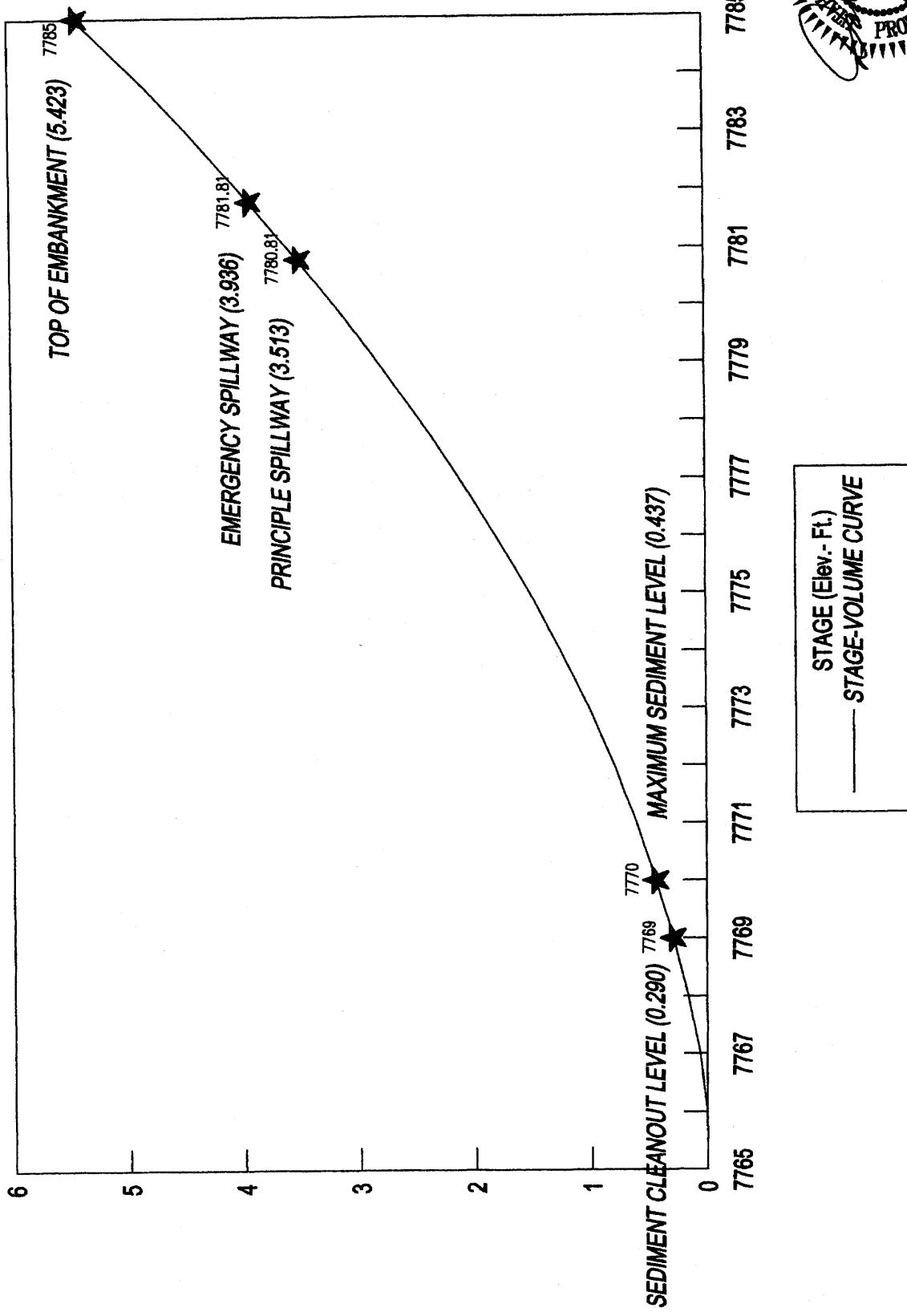
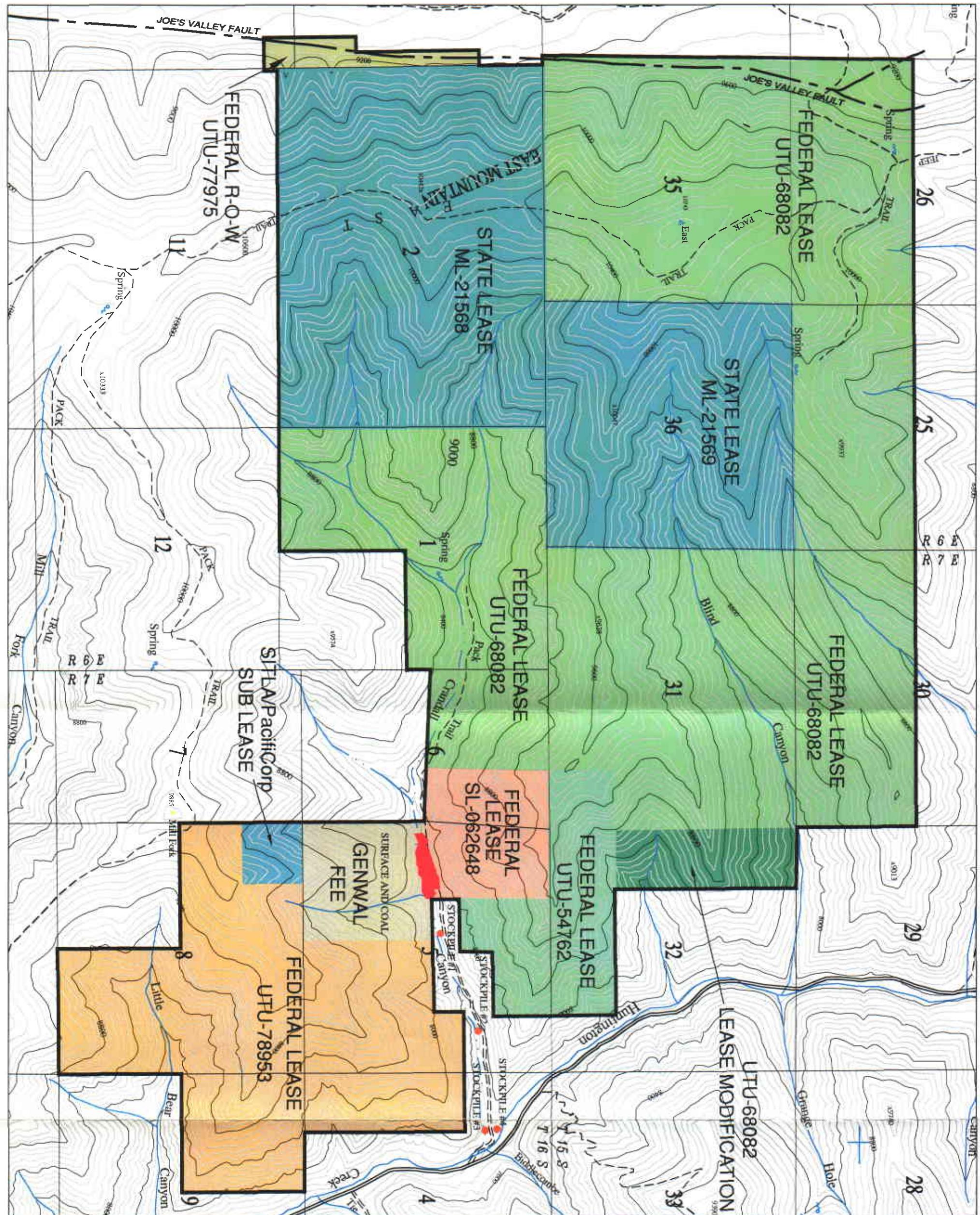


FIGURE 6



LEGEND

UDOGM PERMIT BOUNDARY



MINE SURFACE FACILITIES



STOCKPILE LOCATIONS

(PERMIT AREA)

THE PERMIT AREA IS ENTIRELY WITHIN
THE MANTI - LA SAL NATIONAL FOREST

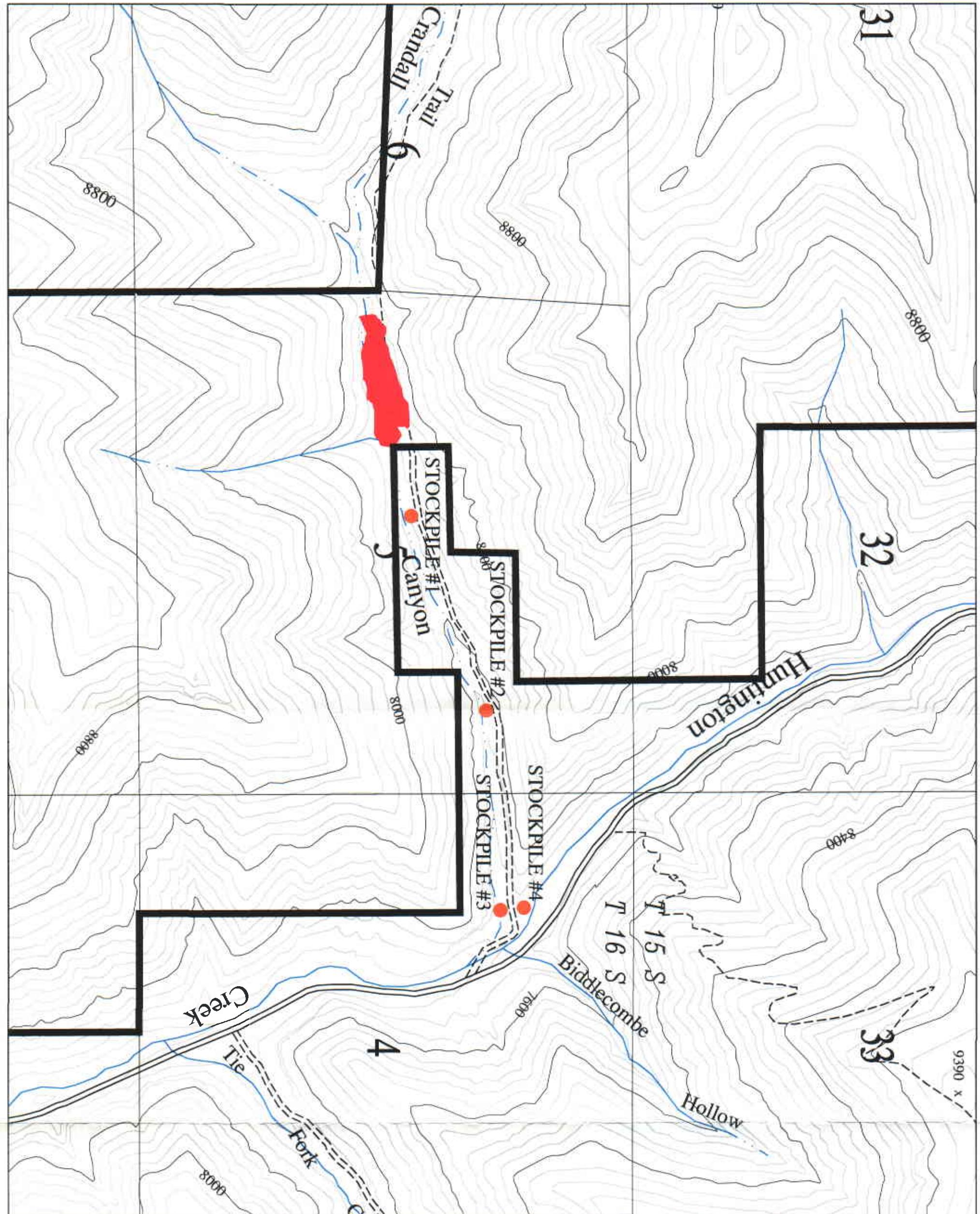


**GENWAL™
RESOURCES, INC.**

P.O. Box 1077, 794 North "C" Canyon Rd, Price Utah
Telephone: (435) 888-4000

CRANDALL CANYON MINE
LEASE/PERMIT MAP

REV: 9	ACAD: LEASE-PERMIT
DATE: 12-05-05	BY: JDS
SCALE: 1"=2000'	PLATE #: 1-1



LEGEND

UDOGM PERMIT BOUNDARY



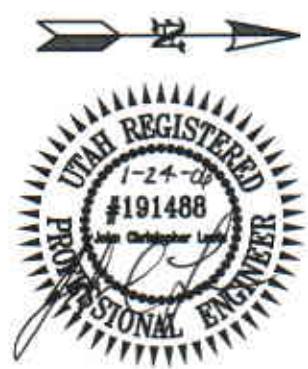
MINE SURFACE FACILITIES



STOCKPILE LOCATIONS



THE PERMIT AREA IS ENTIRELY WITHIN
THE MANTI - LA SAL NATIONAL FOREST

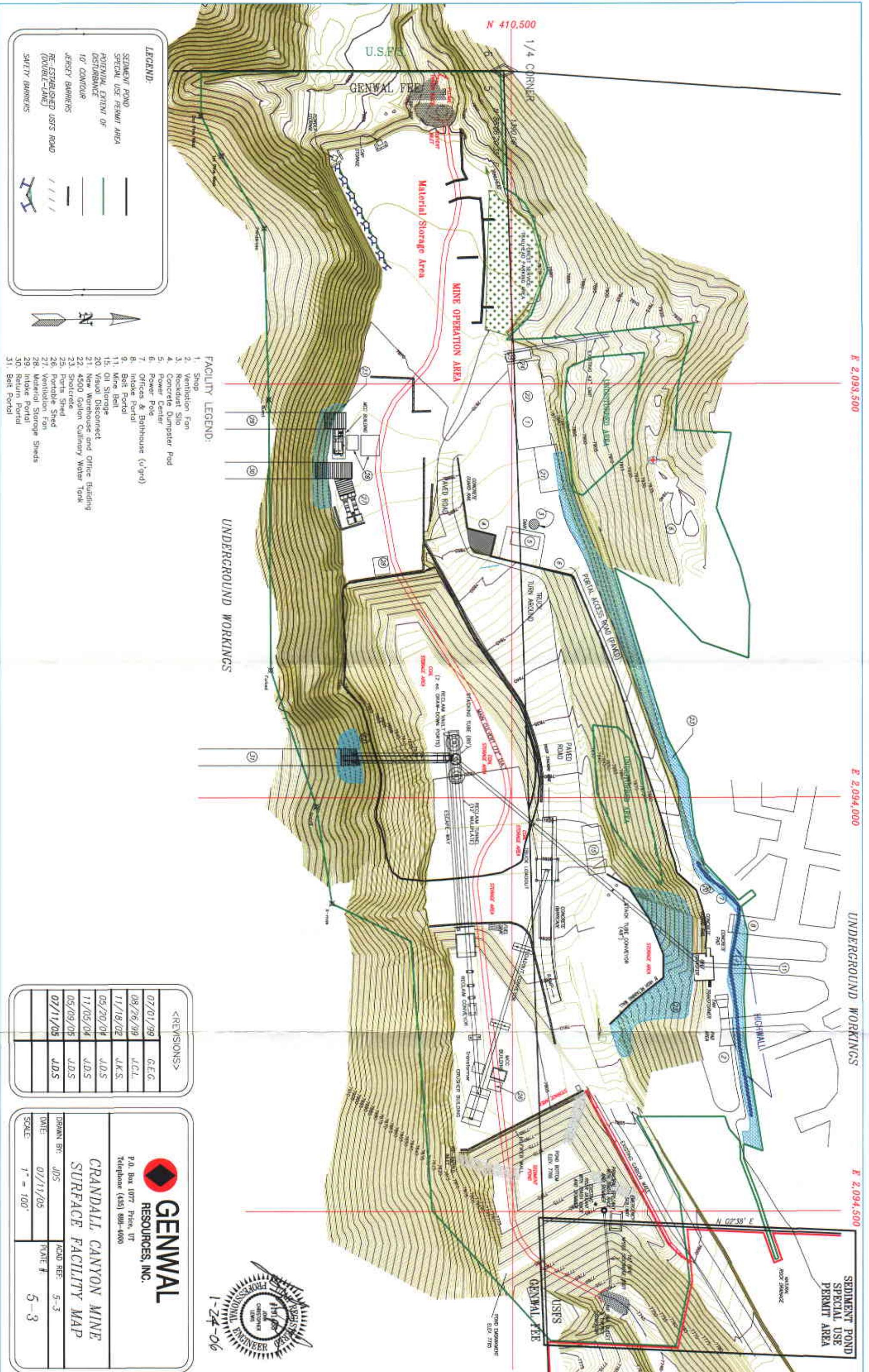


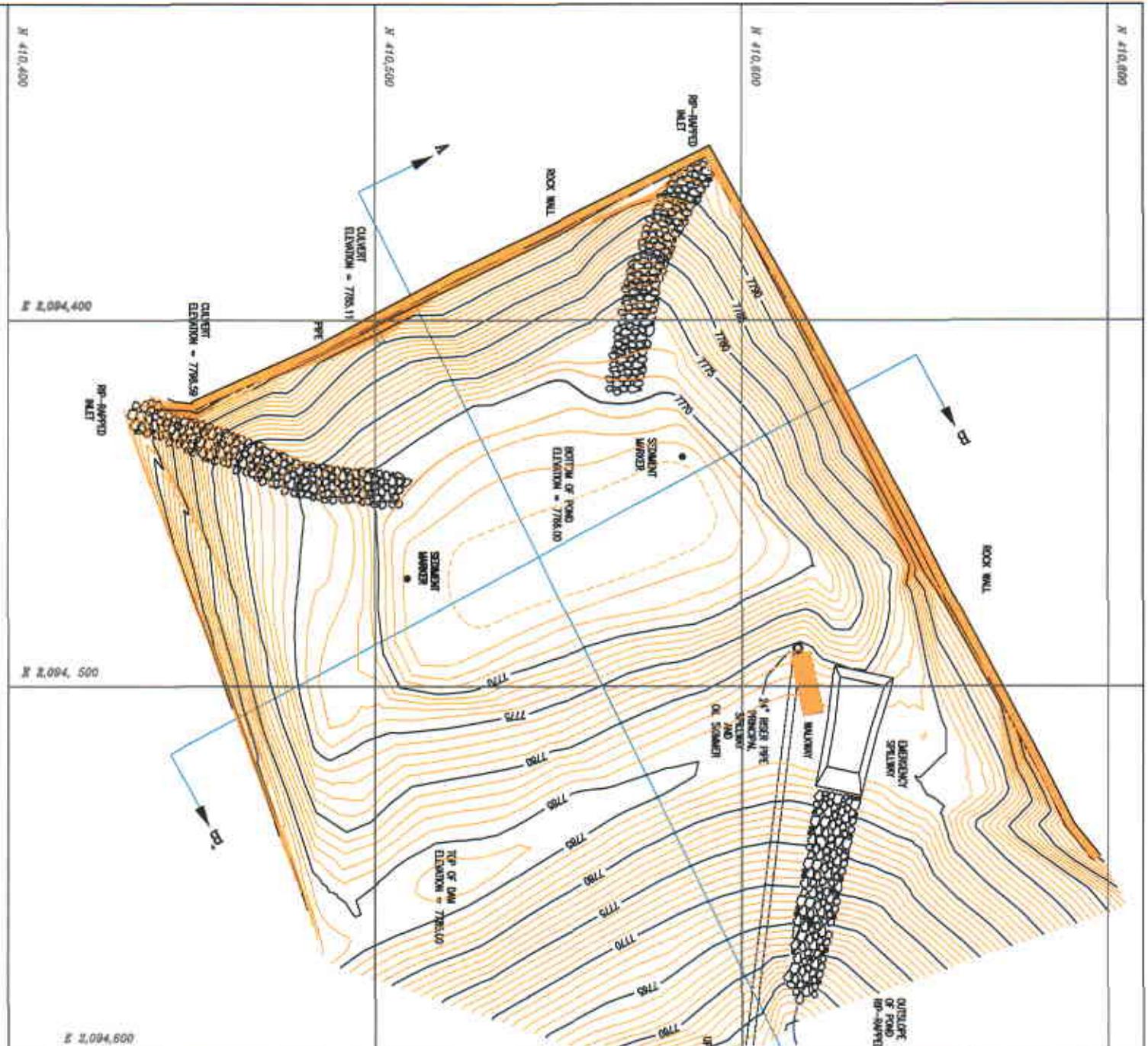
GENWALTM
RESOURCES, INC.

P.O. Box 1077, 794 North "C" Canyon Rd, Price Utah
Telephone: (435) 888-4000

**CRANDALL CANYON MINE
TOPSOIL STOCKPILE LOCATIONS**

REV: 2	ACAD: STOCKPILE LOCATIONS
DATE: 12-05-05	BY: JDS
SCALE: 1"=1000'	PLATE #: 2-3

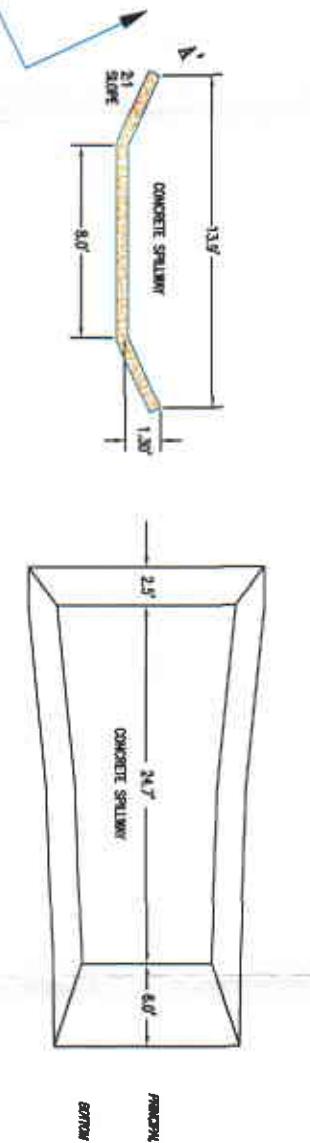




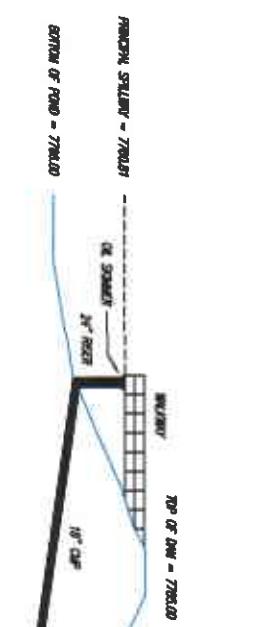
10' CLAYEET OUTLET FOR PRINCIPAL SPILLWAY

UNLIES DISCHARGE POINT

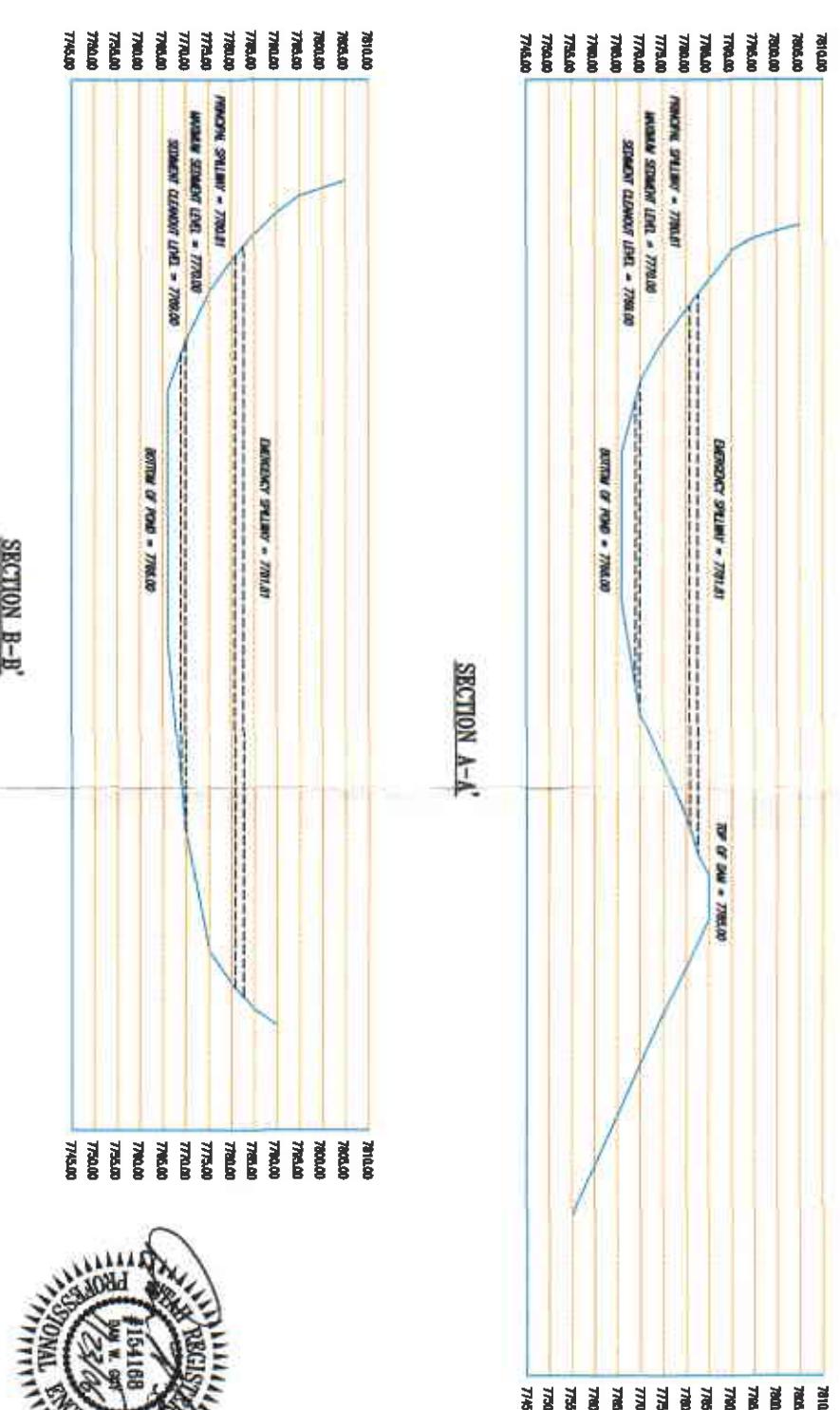
EMERGENCY SPILLWAY DETAIL



PRINCIPAL SPILLWAY DETAIL



SECTION A-A'



SECTION B-B'



AS-BUILT SEDIMENT POND:

LOCATION:	ELEVATION:	VOLUME:
BOTTOM OF POND:	7766.00	0.000 AC. FT.
SEGMENT CLEANOUT LEVEL:	7769.00	0.290 AC. FT.
MAXIMUM SEGMENT LEVEL:	7770.00	0.437 AC. FT.
PRINCIPAL SPILLWAY:	7780.01	3.513 AC. FT.
EMERGENCY SPILLWAY:	7781.01	3.936 AC. FT.

CONTOUR INTERVAL = 1'

Note: Pond Cleaned in November 2003.
Survey Made in April 2004.

<REVISIONS>

03/07/01	GEG
03/15/01	BBI
04/2004	GEG
06/2005	BBI

GENWAL
RESOURCES, INC.

P.O. Box 1420 105 North 10th West Hurricane, Utah
Telephone (435) 687-0613

CRANDALL CANYON MINE
GENWAL POND (AS-BUILT)

DRAWN BY: BLACKHORN ENGINEERING
DATE: 06-28-05
SCALE: 1" = 40'

ACAD REF: AS-BUILT
PLATE #: 7-3